

A Tyco International Company

VideoEdge IP Box Camera

# **Installation & Operation Guide**

Version1.5



Part Number: 8200-2646-00 B0

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## SAFETY PRECAUTIONS

All the following safety and operational instructions to prevent harm or injury to the

operator(s) or other persons should be read carefully before the unit is activated.

# WARNING

- To prevent fire or shock hazard, avoid exposing this unit to rain or moisture.
- Do not block ventilation openings.
- Do not place anything on top of the unit that might spill or fall into it.
- Do not attempt to service this unit yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Please refer all servicing to your distributor / retailer.
- Do not use liquid cleaners or aerosols for cleaning.
- To prevent fire or electric shock, do not overload wall outlets or extension cord.
- This unit must be grounded to reduce the risk of electric shocks.
- Indoor use only.
- The installation should be made by a qualified service person.

# CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

## **1. PRODUCT FEATURES**

#### **1.1 Product Instructions**

The VideoEdge IP Box Camera **ADCIPEB** is a user-friendly device which combines cutting-edge sophistication with practical reliability and convenience, high performance with smooth remote communication. Just plug in the network cable and you'll get live streaming video and audio anytime, any place. You'll have security you can rely on! The especially high resolution has 520 TV lines, a built-in web server and a Network interface to connect you with the Internet securely and fast.

Other special features include the masking of personal private images with flexible mask-area positioning and size, the self-downloading automatic video codec and other components, and the whole unit is very easy to set up. You can access the network to get smooth images through the real-time and synchronized audio / visual stream provided by the device, because it supports two compression modes, the MJPEG and the MPEG4 -- you can change from one to the other as you wish. The MPEG4 file format is a very small size file, so it can save more images over a longer time and can be set extremely fast. The device also has a built-in website server providing many Internet functions and protocols, including the MDIX protocol which recognizes both the normal and the crossover cables, either of which can connect up with an IP camera.

We hope this device makes it easier for you to get your IP address information. This unit supports the USB interface which helps you to very easily get an IP address to open the IE browser: just type in your IP address to the browser and you can access your IP camera.

The device can hopefully provide the advanced motion detection function to improve your network surveillance with both the powerful and enhanced multi-zone and multi-sensitivity modes of detection. We believe this day & night IP camera is the right answer to all your network surveillance problems. Try it and you'll see.

NOTE: Our camera already has a built-in refocus for its Day and Night function. So users don't need to have an IR lens in this camera, they can just use a normal lens. If an IR lens is used, the focus will become blurred.



#### **1.2 Product Features**

- 1/3" SONY Super HAD CCD.
- Mechanical IR Cut Filter.
- MPEG4 / MJPEG video compression.
- High resolution: 520 TV
- Embedded web server.
- Supports a built-in microphone.
- Supports motion detection.
- Supports the SD card for alarms & scheduled recording.
- Supports USB interface for basic network setup.
- Supports day & night function.

## **1.3 Technical Specifications**

General:	• Built-in Web Server and network interface. You don't need a PC to operate.
	• Fast and simple installation - connect to your network and assign an IP address
Installation:	within a minute. The null modem cable enclosed helps you to set up without a
	network.
Camera:	Digital, 24-bit color.
	1/3 inch Sony Super HAD CCD sensor.
Image sensor:	MPEG4 resolution (pixels): 640×480, 320x240
	Automatic AGC.
Exposure:	White Balance: Indoor installation.
	• Exposure times: 1/60-1/100,000s.
Sensitivity:	Minimum Illumination: 0.5 Lux. F1.2

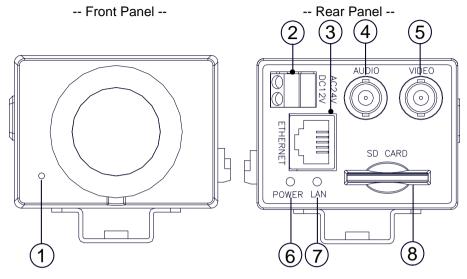
r	1								
	Image frame rat	e: up to 30	(25) frame	s/second.					
	Supports two co	mpression	modes, the	e Motion - JPE	G and the M	PEG4.			
	• 5 levels of com	pression p	provided. T	he file size of	an M-JPEG	compressed			
		• •				•			
	image depends on the image's actual content. Images with a lot of detail u generate bigger files. The level of compression determines the image qual								
	High compression requires smaller files while low compression gives you fin image quality along with bigger files. The table below contains the average f								
	size in Kbytes, derived from real life tests.								
	NTSC	Highest	High	Medium	Low	Lowest			
Image:	352 * 240	31 KByte	22 KByte	18 KByte	12 KByte	9 KByte			
	720 * 480 (Frame)	62 KByte	48 KByte	36 KByte	25 KByte	19 KByte			
	720 * 240	40 KByte	30 KByte	23 KByte	18 KByte	15 KByte			
	720 * 480 (Field)	62 KByte	48 KByte	34 KByte	25 KByte	19 KByte			
	176 * 112	9 KByte	8 KByte	6 KByte	5 KByte	4 KByte			
	PAL	Highest	High	Medium	Low	Lowest			
	352 * 288	27 KByte	22 KByte	18 KByte	12 KByte	9 KByte			
	720 * 576 (Frame)	58 KByte	43 KByte	32 KByte	27 KByte	23 KByte			
	720 * 288	40 KByte	30 KByte	20 KByte	17 KByte	14 KByte			
	720 * 576 (Field)	58 KByte	48 KByte	32 KByte	24 KByte	20 KByte			
	176 * 112	8 KByte	7 KByte	6 KByte	5 KByte	4 KByte			
	Input/Output co	nnector to	trigger the	e camera vis-	a-vis externa	al events, for			
General I/O:	instance a door								
		SCHSOF WIL		u.					
	. Compatible with	oporating	evetome el	ich ac Window	(c. 2000 and )				
System	Compatible with		systems st		15 2000 anu 1				
-	<ul> <li>Internet Explore</li> </ul>	r 6.x.							
Requirements:	Non-network me	odem insta	llation need	s Windows PO	<b>.</b>				
					-				
Supported	• TCP/IP, DHCP,	HTTP, UDF	P, SNTP, IC	MP, DDNS, DI	NS, UPnP, R	TP, RTSP,			
Protocols:	FTP**, SMTP**	(** FTP an	d SMTP fui	nctions are for	PAL version	only)			
	, ,					ony.)			
Security:	Password prote	ction availa	able, unless	s exposure is p	reterred.				
		-in a a la la 🔺	0/400 MIL'I						
Connections:	RJ 45 twisted pa	all cable, 1		Emernet netw	UIK CONNECTIO	лі. 			
	Input/Output con	nnector to t	trigger the o	camera vis-a-v	is external ev	/ents.			
	Operation temp	oraturo 11	-122° E /5	50° C)					
	Humidity: 20-80	% RHG, no	on-condens	ing.					
Operating									
Environment:	WARNING: Avoid	aiming the	camera of	t the sup or ot	har avtramal	/ bright lighte			
		-							
				e camera is u					
	image	e sensor m	ay be dama	aged if expose	d to very brig	ht objects.			

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	Dimensions and weight are as follows.
	Height: 55 (mm)
Dimensions /	• Width: 95 (mm)
Weight	Length: 62 (mm)
	• Weight: 306 g
	(Not including power supply and mini-tripod.)
	• CD-R x 1
Accessories	Power supply: 12V DC/2A.
included:	Instruction manual.

## 2. DESCRIPTION OF THE FRONT/REAR VIEW

## 2.1 Front Panel and Rear Panel



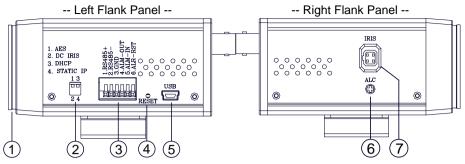
- **1 MICROPHONE:** The IP camera has an additional audio function. The device has a microphone built into its front panel which records sound.
- 2 Plug Inlet: An AC 24V or a DC 12V inlet that connects to an external power supply.

NOTE: This device's requires AC 24 voltage, which is within the range of the SELV (Separated or safety extra-low voltage).

- 3 ETHERNET: This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks.
- 4 AUDIO OUT Connector: The connector provides the unit's audio signal to a speaker.
- 5 VIDEO OUT Connector: The connector provides the unit's composite video signals to a monitor.
- **6 POWER indicator:** Indicates the power status of the unit. The green light indicates the unit is activating. The red light indicates the power is on and the SD card cannot be removed.
- 7 LAN indicator: Indicates the LAN status of the unit. The green light indicates the 100 Mbps Ethernet network is activating. The red light signals the LAN is data linking.
- 8 SD CARD slot: This is used for system software updating and archiving / accessing critical images.



## 2.2 Flank Panel



1. Lens Mount: This IP camera is used with either a C or a CS mount lens.

#### 2. DIP Switch:

4.0	1. AES: Auto electric shutter.
13	2. DC IRIS: Use an auto iris (DC drive)
	<ol> <li>DHCP: Turn On / Turn Off to use the DHCP protocol. If the switch points upwards, the device can change the setup of network function (enable/disable) via the network.</li> </ol>
2 4	4. STATIC IP: If the switch points down, the device can't obtain an IP address from the DHCP server. This option is needed to configure the network communication settings. (*In the default factory configuration, this DIP Switch is in the Down position.)

3. ALARM I/O: This is a 6-PIN connector including the ALARM IN/OUT, ALARM RESET

and **GROUND** items for connecting with external devices.

- RS485 pin: D+
- RS485 pin: D-
- **GND:** Ground Contact.
- ALARM IN (INPUT): This is an alarm input which can be programmed in the menu

system to Normally Open or Normally Closed. ( \_\_\_\_\_\_  $_{\rm OV(Active)}^{\rm 5V}$  )

• ALARM OUT (OUTPUT): This is an alarm-output trigger. Connect this to external

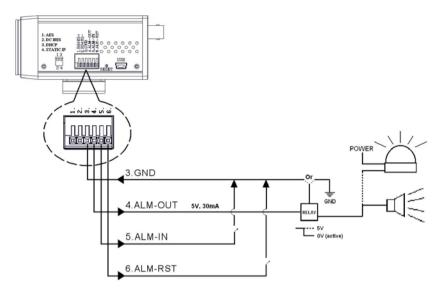
devices such as buzzers or lights. ( \_\_\_\_\_\_  $_{\text{OV(Active)}}^{5V}$  )

• ALARM RST (RESET): This pin connects to an alarm-clear device for clearing an

alarm. ( \_\_\_\_\_\_ <sup>5V</sup> )

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#### Alarm wiring diagram:



- 4. **RESET:** Recover to factory default.
- 5pin MINI USB Port: The user can use a USB device cable to connect the IP camera to the USB port on the PC.
- 6. ALC VR: Iris control VR.

When an auto iris (DC Drive) lens is used, this VR is used to adjust the iris for different lighting environments. Adjust the VR clock-wise to open the iris and counter-clockwise to close the iris of the camera.

7. IRIS: Auto iris connector.

This camera works with a DC drive auto iris lens. Please refer to the pin assignment marked on the camera when connecting the auto iris lens.



## 2.3 The USB function

By connecting the IP camera with a PC via the USB connector, the IP camera can provide two different functions.

1. Insert an SD card: As a card reader.

Insert an SD card into the IP camera, then connect to the PC. You might transfer files between the SD card and the PC. Once you've connected your IP camera to your computer, the Windows system will detect the connection and ask you what you want to do with your SD card.

In other words, if the user connects the IP camera with an SD card and the PC via the USB connector, the IP camera can be used as a normal card reader.

2. Remove an SD card: As a configuring tool.

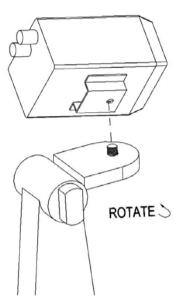
Before using the USB configuration setting page, please remember to remove the SD card or your PC will read the SD card and won't show this window.

Title	Camera1(00:1E:D2:00:01:01)	DHCP	ON 💌
IP Address	192 168 1 168	Netmask	255 255 0 0
Gateway	192 168 1 254	DNS Server	168 95 1 1
HTTP Port	80		1
PPPoE Enable	OFF		
Account		Password	
Mode Setting	C Infra-structure C Ad-Hoc	ESSID	
Channel	v	WEP Key	C Disable C 64 bit C 128 bit
Default Key	01 02 03 04		
Key1		Key2	
Key3		Key4	

	USB Configuration	on v1.03									×		
DHCP OFF (default)	Title IP Address Gateway HTTP Port	I	168 168	1	254	DHCR Netmask DNS Server	255 168	255 95	0	0			
	PPPoE Enable Account Mode Setting Channel Default Key	C Infra-st	nucture	C Ad+		Password ESSID WEP Key	C Disa	ole C 6	f bit	C 128 bit		Netw	
	Key1 Key3					Key2 Key4	unch(L)	Apply(	A)	Exit(E)		Setti	ng

- NOTE: After changing the settings, please click the "Apply" button. All of the options will be effective after removing the USB connector.
- NOTE: After the IP address has been changed and/ or reset, please unplug the network cable, then plug it once again to make sure the network connection is in normal mode.

## 2.4 Bracket mount installation



The underside of the camera has a screw hole for attaching the bracket to the camera.

Please follow the steps below to install the camera on the bracket.

**Step 1:** Rotate the screw in the bracket to fix the bracket to the camera.

Step 2: Fix the bracket to the ceiling.

**Step 3:** Rotate & fix the camera angle fixer at the selected angle.



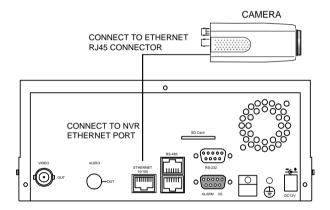
## 3. INSTALLATION

Please follow the instructions and the diagram below to set up the system.

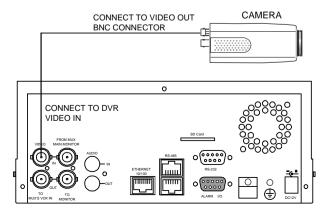
NOTE: The IP camera is linked by its Video Out connection via a BNC connector to a monitor's Video In connection. If this connection is there, you can see some information on the monitor screen, such as the IP camera factory default Static IP address(192.168.1.168). But the IP camera Static IP address can only appear if there is a connection between the IP camera and another device. If there is no such connection, the IP camera factory default Static IP address will not appear on the monitor screen.

## **3.1 CONNECTING WITH AN NVR**

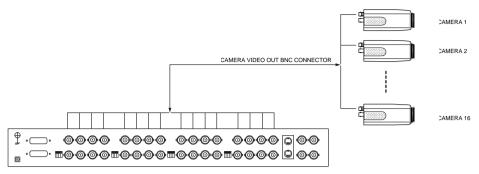
Use a straight LAN cable to connect directly to an NVR.



## **3.2 CONNECTING WITH A DVR**



## **3.3 CONNECTING WITH A MULTIPLEXER**



### 3.4 UPDATING SYSTEM SOFTWARE

If the system software of the IP camera needs to be upgraded, please take the following steps to safely process it.

# NOTE: Before carrying out the following procedures, please ensure the SD card is working and the file of the system firmware is intact

- 1. Format an SD card using the FAT format.
- 2. Create a directory named LANCAM in the SD card if it does not exist.
- 3. Copy the file of UPDATE.BIN to the LANCAM-directory.

#### NOTE: If the IP camera is running, please power it off first.

- 4. Insert the SD CARD into the IP camera.
- 5. Remove the Ethernet cable from the RJ-45 port and then power on the IP camera. In 5 to 10 seconds, a message reading "UPDATE PROCESSING" will show up on the screen on a blue background; if not, please recheck steps 1 to 5 carefully or inform your technical support while ignoring the following steps.
- DO NOT power off the IP camera while this update process is running until the message "UPDATE OK RESET PLEASE" appears on the screen; it might take 15 to 30 seconds to appear.



If the message "UPDATE NG RESET PLEASE" appears rather than "UPDATE OK RESET PLEASE", please write down the error messages shown on the screen and inform your technical support, while ignoring the following steps.

- 7. Power off the IP camera when this update process is finished, then remove the SD card from the IP camera.
- 8. Reconnect the Ethernet cable to the RJ-45 port as necessary.
- 9. Power ON the IP camera and it will work normally if the entire update procedure goes correctly.
- 10. Verify the version of the system software.

### WARNING:

- 1. Don't use the NTFS format in step 1.
- 2. Steps 1 to 3 have to be done on a PC.
- 3. Make sure the file of UPDATE.BIN is a correct one in step 3, or the IP camera will not work normally after being updated.
- 4. If the power of the IP camera is suddenly lost in step 6, please remove the SD card first and turn on the IP camera next to test its operation. If the IP camera remains working normally, please go back to step 3; otherwise, please inform your technical support.
- 5. In step 7, if the SD card is not removed and the IP camera does not get online as well, the updating process must be repeated again after rebooting the IP camera.
- 6. Make sure that the SD card is inserted in the correct position in step 4, or the IP camera will suffer permanent physical damage.
- 7. If the message "CSUM ERROR" appears immediately after step 6, it implies a problem in the file of UPDATE.BIN.
- Don't interrupt the process while the unit is updating itself; proceed with an SD card not including any system software of the unit, or else the unit will crash.

## 3.5 IP camera SD card Troubleshooting

- 1. Check if the SD card position is correct or not. Please refer to the manual for the related information.
- Correctly insert the SD card after powering the IP camera on. The "SD" icon displays in the upper-right corner of the monitor screen. If not, it means the device detection has failed. Please contact your technical support and ignore the following steps.
- 3. If a check mark appears, please check the following:
  - a. Is it really an SD "Memory" Card?
  - b. Is this SD card formatted in the FAT16 format?
  - c. Connect the SD card with a PC and test to see whether the PC can read the data or not.
  - d. Does this SD card still have the capacity for storing data?
  - e. Is the SD card set to write?

If there is no check mark beside the "SD" icon, please go on to the next step.

If all the answers are "yes" but the check mark still persists, please contact your technical support and ignore the following steps.

- Ensure the "SD CARD ENABLE" function is activated in the ALARM and SCHEDULE pages if there is no check mark appears beside the "SD" icon on the screen.
- 5. Read the data on the web page of "sdget.htm" after recording. If the data cannot be read through the network, please read it instead in a PC, check the data stored in the "LANCAM" directory and contact your technical support regardless of whether there is data or not.

## WARNING:

- 1. Performing this troubleshooting process may need a monitor, a PC, a card reader and some cables.
- 2. If the SD card is removed while storing or accessing data, the data will be lost.
- 3. If there is a check mark beside the "SD" icon, it means the SD card has been inserted into the IP camera but cannot perform its writing function. Possible reasons are:
  - a. It is not an SD memory card.
  - b. The SD card is unformatted or formatted in a non-FAT16 or non-FAT12 format.
  - c. The file system is damaged.
  - d. The capacity of the SD card is full.
  - e. The SD card is set to be read only.
- 4. Turn off the power before inserting the SD card. Otherwise the unit may shut down.



# 4. Network Configuration

#### 4.1 Cable Connections

Please follow the instructions below to connect your IP camera to a computer or a network and to choose a proper RJ-45 cable configuration for connections.

### Physical specifications of the RJ-45 cable for Ethernet

Wire Type	Cat. 5
Connector Type	RJ-45
Max. Cable Length	100 m
Hub Wiring Configuration	Straight Through
PC Wiring Configuration	Straight

#### 4.1.1 Connect to a computer

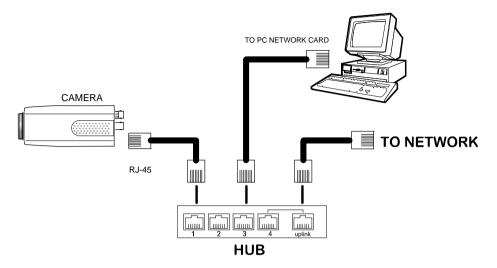
Use a straight LAN cable to connect directly to a computer.



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## 4.1.2 Connect to a LAN Hub (INTRANET)

The RJ-45 PIN configuration for connecting with a LAN Hub is shown below.





#### 4.2 Configure Your IP Camera Network Settings

Upon connecting with the network hardware, you need to activate the network function and configure the proper network settings of the IP camera.

#### 4.2.1 Enable DHCP Function

This function can only work if the LAN, which the unit is connected to, has a DHCP server. If the DHCP server is working, please move the dip switch points up to **3** on the flank panel; now the IP camera will obtain an IP address automatically from the DHCP server. In this instance, please skip section 4.2.2 (Set IP address) and follow section 4.3 (TCP/IP Communication Software).

#### 4.2.2 Set IP Address

You need to set an IP address for the unit if the LAN unit isn't connected to a DHCP server. Otherwise, please follow the instructions given below:

Set the IP, MASK and GATEWAY. The following is a sample setting.

IP: 192.168.1.X MASK: 255.255.255.0

GATEWAY: 0.0.0.0

NOTE: When only one unit of the IP camera is connected to a computer or LAN, you can freely assign an IP address for the IP camera. For example, there is a range of IP camera IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK and GATEWAY; leave the settings as default.

When an IP camera is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please consult a qualified MIS professional or your ISP. NOTE: When connecting to a network, each connected IP camera must be assigned a unique IP, which must be in the same class type as your network address. IP addresses are written as four sets of numbers separated by periods; for example, 192.168.1.1 Therefore, if the connected network is identified as Class C, for example, the first three sets of numbers of the IP camera IP address must be the same as the network address. If the connected network is identified as Class B, the first two sets of numbers of the IP camera IP address must be the same as the network address. If you have any questions regarding these settings, please consult a qualified MIS professional or your ISP.



## 4.3 TCP/IP Communication Software

Follow the procedure below to install the TCP/IP communication program in your computer.

1. Open the Start menu from your computer, and select the Settings/Control Panel option.



2. Double click the **Network** icon to enter the windows.



3. Click on the **Configuration** tag, and check if the TCP/IP is included among the network

components list. If the TCP/IP is included, please process section 4.5. If it is not included,

please follow section 4.4 to install the TCP/IP.

Network ?
Configuration Identification Access Control
The following network components are installed:
Client for Microsoft Networks
NE 2000 Compatible
File IPX/SPX-compatible Protocol
TCP/IP
1
Add Remove Properties
Primary Network Logon:
Client for Microsoft Networks
,
Eile and Print Sharing
Description TCP/IP is the protocol you use to connect to the Internet and
wide-area networks.
OK Cancel

## 4.4 TCP/IP Installation

Network		? ×	
Configuration	Identification Access Co	ontrol	
The followin	g network components are	installed:	
💖 NE 2000	r Microsoft Networks I Compatible X-compatible Protocol II		
4	Select	Network Component Type	I ×I
Add		ne type of network component you want to install:	
Primary Net	icrosoft Network	ent 2 Add	P
<u>F</u> ile and	Print Sharing	uiso	-
Descriptio	Select Network Proto	col	
		work Protocol that you want to install, then click DK. If you have disk for this device, click Have Disk.	
	Manufacturers:	Network Protocols:	
	a Banyan 4	Fast Infrared Protocol	
	Microsoft	¥ Microsoft 32-bit DLC       ¥ Microsoft DLC       5	
		У ТСРИР	
		Have Disk	
		OK Cancel	

During the installation, you will be requested to insert the Windows CD-ROM. After installation,

the PC may be restarted.

## 4.5 TCP/IP configuration setting

1. Click <u>Start  $\rightarrow$  Settings  $\rightarrow$  Control Panel  $\rightarrow$  Network.</u>

#### 2. Select <u>TCP/IP</u>, and then click <u>Properties</u>.

#### NOTE: Before processing the IP camera installation in a WAN, please make sure the

Internet connection works properly. If not, please contact your ISP provider.

Network ? 🗙		CP/IP Properties				? ×
Configuration Identification Access Control		Bindings	Adv	anced	N	etBIOS
The following network components are installed:		DNS Configuration	Gateway	WINS Config	uration	IP Address
Add       Remove         Primary Network Logon:       Properties         Client for Microsoft Networks       Image: Client for Microsoft Networks         Primary Network Logon:       Image: Client for Microsoft Networks         Elie and Print Sharing       Image: Client for Microsoft Networks         Description       TCP/IP is the protocol you use to connect to the Internet and wide-area networks.		An IP address can If your network doi your network doi your network adni the space below. © <u>Q</u> btain an IP © <u>Specify an IF</u> <u>IP Address:</u> <u>Subnet Mas</u>	es not autor nistrator for a address aut address: 192	natically assign an address, an	IP addre d then ty	esses, ask
OK Cancel	ŕ			ОК		Cancel

If you are using a DHCP server, please select <u>Obtain an IP address automatically</u>. Any assigned IP address for the connected IP cameras must be in the same class type as the server. If there is no DHCP server, please select <u>specify an IP address</u> and type in the IP address of your PC. This IP address must be different from other network IP devices but in the same class type.

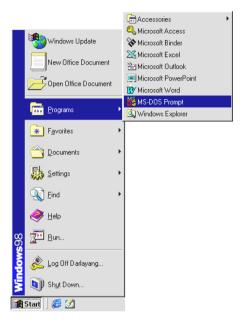
NOTE: The IP address of an IP camera in a network must be unique to itself as opposed to those of the other chosen PCs, but in the same class type. Installation and Operation Guide

## 4.6 Connection Testing

With the previous settings, follow the instructions below to ensure whether you have established

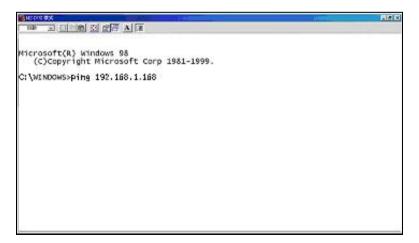
the connection successfully.

#### 1. Click <u>Start → Programs → MS-DOS Prompt</u>



2. Enter ping 192.168.1.168, then enter. (See the sample screen below).

\*\* This is the IP address of IP camera that is assigned for the connected IP camera in step2.



American Dynamics<sup>114</sup> A Tyco International Company If you receive a response as in the sample screen below, the connection hasn't been successfully established. Please re-check all the hardware and software installations by repeating sections 4.4 and 4.5. If you still can't establish the connection after rechecking, please contact your dealer.

NSCOL BUT	
Microsoft(R) Windows 98 (C)Copyright Microsoft Corp 1981-1999.	
c: \wINDOws: ping 192.168.1.168 Type Camera IP address	
Pinging192.168.1.168 with 32 bytes of data:	
Destination host unreachable. Destination host unreachable. Destination host unreachable. Destination host unreachable.	
Ping statistics for 192.160.1.160: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss), Approximate round trip times in milli-seconds: Minimum = Ons, Maxinum = Ons, Average = Oms	
C:\WINDOWS>_	

If you receive a response as in the sample screen below, you have successfully made the

connection.

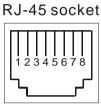
	181
ticrosoft(R) windows 98 (C)Copyright Microsoft Corp 1981-1999. ::\WINDOwsping 192.168.1.168 Type Camera IP a Pinging 192.168.1.168 with 32 bytes of data:	address
<pre>teply from 192.168.1.168 bytes=32 time&lt;10ms TTL=128 teply from 192.168.1.168 bytes=32 time&lt;10ms TTL=128 teply from 192.168.1.168 bytes=32 time&lt;10ms TTL=128 teply from 192.168.1.168 bytes=32 time&lt;10ms TTL=128</pre>	connection is successful
ring statistics for 192.168.1.168 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss) pproximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	

## 5. Operation Instructions for the Network

The Microsoft Internet Explorer in a PC provides the functions of monitoring remote zones or watching recorded data through the TCP/IP protocol. The details are listed as follows.

**RJ-45 PIN configuration for Ethernet** 

		-
PIN NO.	PIN Assignment	
1.	TX +	 -
2.	ТХ -	
3.	RX +	
4.	Not Connected	
5.	Not Connected	
6.	RX -	
7.	Not Connected	-
8.	Not Connected	-



Physical specification for Ethernet

Wire type	Cat. 5
Connector type	RJ-45
Max. cable length	100 m
Hub wiring configuration	Straight Through or Cross Over
PC wiring configuration	Straight Through or Cross Over



## 5.1 Microsoft Internet Explorer

#### 5.1.1 Connecting the IP camera

- Start up Microsoft Internet Explorer, and then follow the steps below to connect the IP camera.
- 2. Click on the URL block at the top of the window.
- 3. Enter the URL address of the IP camera into the URL block and press the "Enter" button to enter the home page.
- 4. Scroll to the bottom of the page, with its six icons, "Video", "Network", "System", "Application", "SD card" and "Pan/Tilt". Whichever you click, the page headlined "Enter Network Password" will appear.
- 5. Enter the "User Name" and "Password" in the appropriate spaces.
- 6. Click on the "**OK**" button to set your entries, and automatically exit the page.

NOTE: The default "User Name" and "Password" are admin and 9999 respectively.

- NOTE: The page headlined "Enter Network Password" is shown below. Please enter the user name and password of the IP camera when you see it. If either the user name or the password is incorrect, please check the input data and rectify it as necessary.
- NOTE: Once authorized successfully, it will not appear again until you close the window and reconnect it.
- NOTE: The initial sequence of proceeding is to type in your IP address and click the "Enter" button to access the home page. If and when you revise or change data in the "SYSTEM USERS" page, the sequence will alter to initially show the "Enter Network Password" page.



#### Browsing images from the IP camera

The images from the IP camera are displayed on the home page when online with the IP camera.

There are also additional settings provided on the home page. MJPEG mode or MPEG4 mode

display different display formats on their home page.



#### Homepage of MJPEG mode

#### Homepage of MPEG4 mode

- Click on the **Video** button to enter the image-setting page.
- Click on the **Network** button to enter the network-setting page.
- Click on the **System** button to enter the system-setting page.
- Click on the **Application** button to enter the application-setting page.
- Click on the SD card button to open the SD card- Filelist of the Memory Card window, if the SD card is inserted.
- Click on the **Pan/Tilt** button to change the Pan/Tilt/Zoom settings.
- Click on the 11/10/2005 14:31:37 button to change the time/date display mode.
- Click on the button to switch high/low speed network.
- Click on the 🕑 button to play the live audio while the audio function is set to ON. Click once again to deactivate.
- Click on the button to archive AVI videos into your PC. Click once again to deactivate.
   In the recording mode, there will appear a red blinking icon in the upper-right hand corner of the image. The AVI file will be saved in the path of c:\.
- Digital zoom function: Click on the video display area, and it will show the zoom-in images. Double click to see the maximum size. Click on the right mouse button on the video display area, and it will show the zoom-out images. Double click the right mouse button to come back to the normal size. (MPEG4 mode only)



#### 5.1.2 Change Video Setting

Please follow the steps below to change the image setting through the network as necessary.

1. Click on the Video button on the home page to enter the image-setting page.



#### Video setting page of MJPEG mode

Video setting page of MPEG4 mode

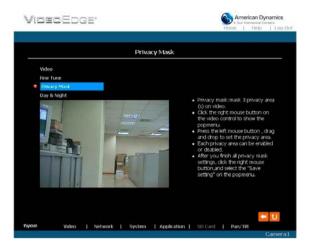
- Adjust the image setting including "Device Title", "Resolution", "Quality", "Frame rate" (MPEG4 mode only), "Format", "Viewer Type" (MJPEG mode only), and "MJPEG Deinterlace" (MJPEG mode only) as necessary.
- 3. Click on the **Submit** button to submit the new image setting.
- 4. Click on the Fine Tune button to enter the Video Fine Tune page to set the details of the device including: "White Balance", "Flickerless", "Mirror", "High Speed Shutter", "BLC Mode", "Backlight", "Brightness", "Contrast", "Saturation" and "Sharpness". Click on the Default button to reset all the settings.

NOTE: The revised image will appear immediately after any change is made.

	Video Fine Tune	
Video  Prova y Mak Day 8 Night	White Balance:         Mrtm           Ficknetss:         CN ● 0F#           High Spead         CN ● 0F#           Bighthress:         C1 20 ■ 00~5           Shighthress:         C1 20 ■ 00~5           Sharpnets:         C1 20 ■ 00~5	55) 55) 55)
	(Reset All Video Paramet	

#### Installation and Operation Guide

5. Click on the Privacy Mask button to enter the Privacy Mask page.



- 6. Click on the Day & Night button to enter the Day & Night page.
  - Click on the drop-down list to choose the Day & Night mode of "Auto", "Day mode", "Night mode" and "Schedule".
  - ii. Set the values of Focus Adjust and Sensitivity.
  - iii. Click on the Submit button to submit the new Day & Night setting.



#### NOTE:

The Focus Adjust function:

To achieve ideal sharpness and the best focus, every time you reboot the camera, it will automatically switch from color mode to B/W mode. Click on the drop-down list



to set the period of the focus adjustment at "30 seconds", "1 minute", "2 minutes", "3 minutes", "5 minutes", and "10 minutes", or just select "disable" to deactivate the function.

NOTE: In the "Schedule" mode, you can click the icon to set the Day or Night mode of each hour. "0" means "00:00~00:59", "1" means "01:00~01:59", and so on.



7. Click on the Home button to return to the home page while the new image setting acts on the images to effect the desired changes instantly. (If the setting has not been changed by the above steps, any (re)entry onto the home page will find images in their earlier or original setting.)

#### Exchange the image format

- 1. Select one of the formats then press the **Submit** button.
- 2. The IP camera will restart automatically after several seconds.

#### Description of function keys:

#### MPEG4 mode:

Device Title:	Enter the camera title in the given space.
Resolution:	Scroll to choose the image resolution from "Full D1","VGA", "2CIF", "Half VGA",
	"CIF" or "QVGA".
Quality:	Scroll to choose the image quality out of a spectrum of qualities ranging from
	"highest", "high", "medium", and "low" to "lowest". In MPEG4 mode, you can also
	set the quality by typing in the value. The custom quality value must be in the
	range between 64 Kbps to 8192 Kbps.

Installation and Operation Guide

Fra	ame rate:	Click on the drop-down list to choose the frame rates of "5FPS", "10FPS",
		"15FPS", "24FPS" or "(25) 30FPS".
Foi	rmat:	Click to choose the "MJPEG" or the "MPEG4" mode.

## Fine Tune mode:

Scroll to choose the mode from "Auto", "Fluorescent (3200K)", "Indoor
(4200K)", "Outdoor (6500K)", "Push Hold".
Mark the "Flickerless" "ON" or "OFF". Click your choices to enable.
Mark the "Mirror" "ON" or "OFF". Click your choices to enable.
Mark the "High Speed Shutter" "ON" or "OFF". Click your choices to
enable.
Scroll to choose from "Disable", "Weighted" or "Fixed Gain".
Select in the backlight level in the blank (0 to 255).
Select your desired quality of image brightness from a spectrum of 0 to
255.
Select the contrast level in the blank (0 to 255).
Select the saturation level in the blank (0 to 255).
Select the sharpness level in the blank (0 to 255).

## MJPEG mode:

Viewer type:	Click to choose the viewer type of the "ActiveX" or "AJAX" mode.
MJPEG Deinterlace: Click to choose the MJPEG Deinterlace of the "ON" or "OFF" m	
Submit:	Click to submit the new image setting to the IP camera.
Default:	Click this button to install the default settings in all the entries for image
	parameters on this page.



#### 5.1.3 Change the Network Setting

Please follow the steps below to change the network setting through the network as necessary.

- Set the network options and IP address.
- 1. Click on the **Network** button in the home page to enter the Network page.

Video		ΞE	8							H		<b>can Dy</b> national Cor Help	
Network		1	Use of	Dyna	Ne mic IP Cor	twork:		TP/DF	ICP) Allo	owed.			
SNTP DDNS PPPoE UPnP IP Filter Traffic			IP Address Netmask: Default Ga Primary N. HTTP Port	itewa ame:			192 255 192 80 Submit	168 255 168 168	0 252 1 1	34 0 254 11			IJ
tyco	Video	T	Network	J	System	Ap	plication		3D Card	I	Pan/Tilt		Camera1

- The accessible networks here are the "FTP" (for PAL only), "SMTP" (for PAL only), "SNTP", "DDNS", "PPPoE", "UPnP" and the "Traffic".
- Enter the "IP Address", "Netmask", "Default gateway", "Primary nameserver", and "HTTP Port" as necessary.
- 4. Click on the **Submit** button to submit the new network setting.
- 5. Click on the **Home** button to return to the home page.

IP Address:	Enter the 4-byte IP Address in the appropriate blank space (the
	value in each box may be anywhere between 0 and 255). Every IP
	camera has to own an IP address to be identified on the network.
Netmask:	Enter the 4-byte Subnet Mask in the required blank spaces (usually
	any numbers between 0 and 255). It is used to identify the subnet
	where the IP camera is sited.
Default Gateway:	Enter the 4-byte Gateway in the relevant blank spaces (each unit
	value must be between 0 and 255).
Primary Nameserver:	Enter the 4-byte DNS Server Address in the blank spaces provided
	(each value unit must be between 0 and 255). The DNS Server is in
	charge of translating the Domain Name into the IP Address.
HTTP Port:	Indicates the specific HTTP Port Number. The default is 80.
Submit:	Click to submit the new network setting to the IP camera.



## • Change the Network Setting — FTP (MJPEG mode only).

Please follow the steps below to change the FTP setting via the network as necessary, to upload recording data live. (\*FTP function is for PAL version only.)

1. Click on the FTP button on the upper left menu to enter the "FTP Server Setting" page.

2	Video	EDG	€°		A Tyco Inter	can Dynamics mational Company Help   Log Out
			FTP	Server Setting		
	Network		FTP Server:	192.168.1.1	Port: 21	
۲	FTP		User Name:	guest		
	SMTP		Password:			
	SNTP		File Upload Path:	/tmp	-	
	DDNS				3	
	PPPoE UPnP			Submit		
	IP Filter					
	Traffic					
				FTP Application Setting FTP Schedule FTP Record FTP Alarm		
	typo	Video	Network   Syst	em   Application   SD (	Card   Pan/Tilt	<b>•</b> U
						Comora 1

- 2. Enter the "FTP Server" address, the "User Name", and the "Password" of the FTP Server; and set the "File Upload Path" of the image files when necessary.
- 3. Click on the **Submit** button to submit the new FTP setting of the recording.
- 4. Click on the **Home** button to return to the home page.

FTP IP Address:	Enter the FTP server DOMAIN NAME in the appropriate blank space.	
User Name:	Enter the FTP login user name in the attached blank space (if the data is not	
provided, warning messages will show up).		
Password:	Enter the FTP login password in the attached blank space (if the space is	
	blank, warning messages will show up).	
File Upload Path:	Enter the file upload path while setting the FTP.	
Submit:	Click to submit the new FTP setting to the IP camera.	

### <u>Change the Network Setting — SMTP (MJPEG mode only).</u>

Please follow the steps below to change the SMTP setting through the network as necessary. (\*SMTP

function is for PAL version only.)

1. Click on the SMTP button on the upper left menu to enter the "SMTP Server Setting" page.

2	Video	EDC	BE.		A Tyco Internati	n Dynamics <sup>anal Company</sup> elp   Log Out
			SMTI	P Server Setting		
•	Network FTP SMTP DDNS PPPOE UPnP IP Filter Traffic		My Server Requination Account Name: Password: Sender: SMTP Server: Email Address:	res Authentication 192.168.1.1 guest⊛localhost Submit		
				SMTP Application Setting SMTP Alarm		<del>م</del>
	tyco	Video	Network   Sys	tem   Application   SD Card	Pan/Tilt	Camera 1

- 2. Click "My Server Requires Authentication" to checkmark the box and activate the function.
- Enter the Sender name, DOMAIN NAME of the SMTP server, and set the recipient's e-mail address as necessary.
- 4. Click on the **Submit** button to submit the new SMTP setting.
- 5. Click on the **Home** button to return to the home page.

Account Name & Password:	Enter the account name and password if you check marked the	
	"My Server Requires Authentication" function.	
SMTP Server:	Enter the SMTP server DOMAIN NAME in the given blank	
	space.	
Email Address:	The recipient's e-mail address.	
Submit:	Click to submit the new SMTP setting to the IP camera.	



## <u>Change the Network Setting — SNTP.</u>

Please follow the steps below to change the SNTP setting through the network as necessary.

1. Click on the **SNTP** button on the upper left menu to enter the "SNTP Server Setting" page.

	VIDEO	EDG	BE°		American Dynamics
-					Home   Help   Log Out
			SNTI	P Server Setting	
	Network		SNTP Server:	192.168.1.6	
۲	SNTP		Time Zone:	GMT Dublin,Lisbon,London	~
	DDNS PPPoE			Automatically Adjust for Time Changes.	Daylight Saving
	UPnP IP Filter			Submit	
	Traffic				
				SNTP Date and Time	
	tyco	Video	I Maturali I Our		
4	cijoo	viueo	Network   Sys	tem   Application   SD Car	d   Pan/Tilt Camera1

- 2. Enter the IP Address of the SNTP server, and choose one of the time zones as and when necessary.
- 3. Click "Automatically Adjust for Daylight Saving Time Changes" to checkmark the box and activate the function.
- 4. Click on the Submit button to submit the new SNTP setting.
- 5. Click on the **Home** button to return to the home page.

SNTP Server:	Enter the SNTP server DOMAIN NAME in the blank space provided.
Time Zone:	As we know, the globe is divided into various time zones. The user must enter
	his/her time zone. If this is not done, the time given by the unit may be incorrect.
Submit:	Click to submit the new SNTP setting to the IP camera.

### • Change the Network Setting — DDNS.

The "Network" page has, on its upper left, the "DDNS" icon. Please follow the steps below to change the DDNS setting through the network as necessary.

1. Click on the **DDNS** button on the upper left menu to enter the "DDNS Setting" page.

	Video	Edg	ēΕ		A Tyco Intern	an Dynamics ational Company felp   Log Out
	_		DD	DNS Setting		
	Network		Enable DDNS Func	tion:		
	SNTP		DDNS Type	DynDNS 🧭 Apply		
۲	DDNS PPPoE		DDNS Host Name:			
	UPnP		DDNS Account:			
	IP Filter		DDNS Password:			
	Traffic			Submit		
	typo	Video	Network   Syste	m   Application   SD Card	Pan/Tilt	Camera 1

- 2. Click "Enable DDNS Function" to checkmark the box and activate the function.
- 3. Click "DDNS Type" to open the list of two DDNS modes to choose from: "DynDNS" and "hn". Click on the "Apply" button and connect their website automatically and visit it. Enter your dynamic IP Address and Email Address. If they are accepted by the website, you will get an Email containing your DDNS Account and DDNS Password in your Email box.
- 4. Enter the "DDNS Host Name", the "DDNS Account" and the "DDNS Password".
- 5. Click on the **Submit** button to submit the new setting.
- 6. Click on the **Home** button to return to the home page.

NOTE: Please refer to section 5.1.8 (PPPoE & DDNS) for more details.



Enable DDNS Function:	Checkmark to activate the function.				
DDNS Type:	Click to open the list of two DDNS modes to choose from: "DynDNS"				
	and "hn". Click on the "Apply" button and connect this website				
	automatically and enter it. Enter your dynamic IP Address and Email				
	Address. If they are accepted by the website, you will get an Email				
	containing your DDNS Account and DDNS Password in your Email				
	box.				
DDNS Host Name:	Enter your host name in the attached space.				
DDNS Account:	Enter it in the given space.				
DDNS Password:	Enter it in the required space.				
Submit:	Click to set.				

### • <u>Change the Network Setting — PPPoE.</u>

The "Network" page has, on its upper left, the "PPPoE" icon. Please follow the steps below to change the

PPPoE setting through the network as necessary.

1. Click on the **PPPoE** button on the upper left menu to enter the "PPPoE Setting" page.

	VIDEOE	Edge	a			6	🗾 A Tyco Internati		
						Н	lome   He	lp   Log	g Out
				PPP	oE Setting				
	Network SNTP		PPPoE is ina	ctive.					
۲	DDNS PPPoE		PPPoE Mode:		OFF 💌				
	UPnP IP Filter		Account: Password:						
	Traffic				Submit				
					All PPPoE settings ta cycling the camera.	ke effect after			
								🖛 tu	
	<i>tyco</i> y	'ideo	Network	System	Application	SD Card	Pan/Tilt	Came	

- 2. Click on the "PPPoE Mode" to activate the function.
- 3. Enter the PPPoE "Account" and the PPPoE "Password".
- 4. Click on the **Submit** button to submit the new setting.
- 5. Click on the **Home** button to return to the home page.

NOTE: Please refer to section 5.1.8 (PPPoE & DDNS) for more details.

#### Description of function keys:

PPPoE mode:	<b>10de:</b> Click your choices to enable the PPPoE function.				
Account:	Enter it in the given space.				
Password:	Enter it in the required space.				
Submit:	Click to set.				

American Dynamics<sup>™</sup>

## • Change the Network Setting — UPnP.

page.

The "Network" page has, on its upper left, the "UPnP" icon. Please follow the steps below to change the UPnP setting through the network as necessary.

1. Click on the UPnP button on the upper left menu to enter the "Universal Plug and Play"

Video	EDG	Ē		A Tyco Interr	an Dynamics utional Company Help   Log Out
		Univer	sal Plug and Play		
Network SNTP DDNS PPPOE UPnP IP Filter Traffic		<ul> <li>Enable UPnP</li> <li>Max Expired Age:</li> <li>SSDP Port:</li> <li>UPnP Port:</li> <li>Enable UPnP Mer</li> </ul>	120       Seconds (10 ~ 3600)         1900       Default: 1900         5678		
tyco	Video	Network   Syst	em   Application   SD Card	Pan/Tilt	Camera1

- 2. Click "Enable UPnP" to checkmark the box and activate the function.
- 3. Enter the UPnP "Max Expired Age", the "SSDP Port" and the "UPnP Port".
- 4. Click "Enable UPnP Memory Card Access" to checkmark the box and activate the function.
- 5. Click on the **Submit** button to submit the new setting.
- 6. Click on the **Home** button to return to the home page.

Max Expired Age:	Enter it in the given space from a range of 10~3600.
SSDP Port:	SSDP stands for Simple Service Discovery Protocol. SSDP searches for
	upstream Internet gateways using UDP port 1900.
UPnP Port:	Enter the UPnP Port in the attached space.
Submit:	Click to set.

#### <u>Change the Network Setting — IP Filter</u>

The "Network" page has, on its upper left, the "IP Filter" icon. Please follow the steps below to change the

IP Filter setting through the network as necessary.

1. Click on the IP Filter button on the upper left menu to enter the "Network Setting" page.

	Video	EDO	ΞE	<u> </u>							( H	💙 A Tyco Interr	an Dynamics ational Company lelp   Log Out
						IP	Fil	ter					
	Network			🔲 Enable	IP F	ilter							
	SNTP			Default Pol	icy:			<ul> <li>Allo</li> </ul>	wC	Deny			
	DDNS			Policy List									
	PPPoE								Q.,	Up			
	UPnP IP Filter												
	Traffic									Delete			
	manic									Down			
				Add/Mod	lify I	Policy							
				Deny		D	-	0	0	Ō			
								Submit					
													🖛 U
8	tyco	Video	1	Network	T	System	1	Application		SD Card	1	Pan/Tilt	Camera 1

- 2. Click "Enable IP Filter" to checkmark the box and activate the function.
- 3. Select the Default policy.
- 4. Set the Allow/Deny IP Filter policy and enter its IP address.

After setting the policies, they will be shown on the Policy List. The user can use the "Up" or

"Down" to select a policy and use the "Delete" button to erase it.

- 5. Click on the **Submit** button to submit the new setting.
- 6. Click on the **Home** button to return to the home page.

NOTE: The settings of the IP Filter must be correct or you may not able to operate the device regularly. If the IP Filter has been incorrectly setup and you can't access the device normally, please press the "Default" button on the rear panel of the camera to return to the factory default setting.



## • Change the Network Setting —Network Traffic.

The "Network" page has, on its upper left, the "Traffic" icon. Please follow the steps below to change the

UPnP setting through the network as necessary.

1. Click on the **Traffic** button on the upper left menu to enter the "Network Traffic" page.

8	Video	Edge	0				A Tyco Inter	can Dynamics national Company Help   Log Out
	~			Networl	< Traffic			
	Network SNTP DDNS		Specifying the socket is useful loaded network	when co				ly
	PPPoE UPnP		Maximum Uploac Bandwidth:				3ps	
۲	IP Filter Traffic		Bandwidd I. Maximum Downk Bandwidth:	bad		( 0 ~ 102400	3ps	
					Submit			
			* The value '0'		will not monit	or any traffic		
	tyco	Video I	Network   5	System	Application	SD Card	Pan/Tilt	<b>U</b>
5								Camera 1

- 2. Enter the "Maximum Upload Bandwidth" and the "Maximum Download Bandwidth".
- 3. Click on the **Submit** button to submit the new setting.
- 4. Click on the **Home** button to return to the home page.

Maximum Upload Bandwidth:	Enter it in the given space from a range of 0 to 102400.
Maximum Download Bandwidth:	Enter it in the required space from a range of 0 to 102400.
Submit:	Click to set.

## 5.1.4 Change the System Setting

Please follow the steps below to change the date and time of the system setting through the network as

necessary.

#### <u>Set the Date and Time of the system</u>

1. Click on the System button in the home page to enter the "Date And Time" page (default).

VIDEOED	3E*	American Dynamics
	Date and Time	
Date and Time	The Local Time	
Timestamp	Date: 03/10/2009 Time: 15:31:29	
Users	The Desired Time	
Digital I/O	Set Manually	
Audio	Date: 03 🗹 / 10 🗹 / 2009 🗹 (MM/DD/YYYY	)
RS485 Setting	Time: 15 🗹 : 35 🗹 : 47 🗹 (HH:MM:SS)	
Update	Synchronize with Computer Time	
Events	Date: 03/10/2009 Time: 15:35:34	
	Synchronize with SNTP Server	
	SNTP Server: 192.168.1.6	
	Time Zone: GMT+00 GMT, Dublin, Edinburgh, London, Lisbor Casablanca	n, Monrovia,
	Time Format: MM/DD/YYYY 💙	
	Submit	
<b>τιμεο</b> Video	Network   System   Application   SD Ca	rd   Pan/Tilt Camera1

- Choose one of the three modes shown on the page to set the Date and Time of the system. The three
  modes are "Set Manually", "Synchronize With Computer Time", and "Synchronize With SNTP
  Server".
- 3. Click on the Submit button to submit the new Date and Time settings.
- 4. Click on the **Home** button to return to the home page.

The Local Time:	Shows the current date and time of the IP camera.
Set Manually:	Manually sets the date and time of the IP camera.
Synchronize With Computer Time:	Synchronizes with the linking computer.
Synchronize With SNTP Server:	Synchronizes with the SNTP server. In this mode, two choices of adjusting are provided: doing it manually or setting the frequency to enable the system to do it automatically.
Submit:	Click to submit the new setting to the IP camera.



## • Change the System Setting — Timestamp.

Please follow the steps below to change/add the timestamp through the network as necessary.

- 1. Click on the Timestamp button on the left side of the "System Date and Time" page to enter the
  - "System Timestamp" page.

VIDEC	EDC	∃E°		A Tyco Inter	can Dynamics
9				Home	Help   Log Out
Date and Time Timestamp Users Digital I/O Audio RS485 Setting Update Events		T Enable Timestamp Timestamp Color: Timestamp Location: Timestamp Format:	Imestamp BLACK UPPER LEFT MM/DD/YY Submit	Home	Help   Log Out
tyco	Video	Network   Syste	m   Application   SD C	ard   Pan/Tilt	Camera 1

- 2. Click "Enable Timestamp" to checkmark the box and activate the function
- 3. Add or modify any timestamp's data as necessary.
- 4. Enter the "Timestamp Color" you have chosen.
- 5. Enter the "Timestamp Location" you have chosen.
- 6. Enter the "Timestamp Format" you have chosen.
- 7. Click on the **Submit** button to submit the new user's setting.
- 8. Click on the **Home** button to return to the home page.

phon of randaon hoyor	
Enable Timestamp:	Checkmark to activate the function.
Timestamp Color:	Click to open the list of eight color modes to choose from: "BLACK", "WHITE", "RED", "ORANGE", "YELLOW", "GREEN", "BLUE", and "PURPLE".
Timestamp Location:	Click to open the list of four location modes to choose from: "UPPER LEFT", "UPPER RIGHT", "BOTTOM LEFT", and "BOTTOM RIGHT".
Timestamp Format:	Click to open the list of six format modes to choose from: "YY/MM/DD", "MM/DD/YY", "DD/MM/YY", "YY/MM/DD TITLE", "MM/DD/YY TITLE", and "DD/MM/YY TITLE".
Submit:	Click to set.

### • <u>Change the System Setting — Users.</u>

Please follow the steps below to change/add the users' authority through the network as necessary.

1. Click on the **Users** button on the left side of the "Date and Time" page to enter the "Users" page.

	VIDEO		merican Dynamics
		Home	Help   Log Out
		Users	
•	Date and Time Timestamp Users Digital I/O Audio RS485 Setting Update	User List: admin:Admin Delete User	
	Events	Add/Modify User User Name: Password: Confirm: Authority: ● Admin ● Operator ● Viewe	a.
	тцьо	LSubmit_, Video   Network   System   Application   SD Card   Pan/	Tilt Comerca 1

- 2. Add, modify or delete any user's data as necessary.
- 3. Click on the **Submit** button to submit the new user's settings.
- 4. Click on the **Home** button to return to the home page.

User List:	The list shows the registered user(s) and the corresponding authority.
Delete:	Deletes a selected user.
Name:	Enter the user's name, which will be added or modified.
Password:	Enter the new password of the user's name above.
Confirm:	Enter the password again for verification.
Authority:	Choose an authority option of the user's name from: Admin, Operator, and Viewer.
Submit:	Click to submit the new setting to the IP camera.



## • <u>Change the System Setting — Digital I/O.</u>

Please follow the steps below to change the Digital I/O through the network as necessary.

1. Click on the Digital I/O button on the left side of the "Date and Time" page to enter the "Digital I/O

# Setting" page.

	Video	Edd	GE°				A Tyco Inte	can Dynamics mational Company Help   Log Out
				Digit	al I/O Setti	ng		
•	Date and Time Timestamp Users Digital I/O Audio RS485 Setting Update Events		Digital Input Digital Outpu		⊙ ON ● OFF	Active Type:		
	typo	Video	Network	Syste	m   Applica	tion   SD Card	Pan/Tilt	Camera 1

- 2. Mark the "Digital Input" "ON" or "OFF" and the "Digital Output" "ON" or "OFF". Click your choices to enable.
- 3. Click on the **Submit** button to submit the new user's settings.
- 4. Click on the **Home** button to return to the home page.

Digital Input:	Select "ON" or "OFF" to use the GPIO connector or shut it down.
Digital Output:	Select "ON" or "OFF" to use the GPIO connector or deactivate it.

#### • <u>Change the System Setting — Audio.</u>

Please follow the steps below to change the Audio setting through the network as necessary.

- 1. Click on the Audio button on the left side of the "Date and Time" page to enter the "Audio Setting"
  - page.

	VIDEO	Edd	ΞE	Ē					H	A Tyco Inter	can Dynamics national Company Help   Log Out
						Audio	Setting				
	Date and Time			Audio:			ON OFF				
	Timestamp Users						Submit				
	Digital I/O										
۲	Audio										
	RS485 Setting										
	Update										
	Events										
											U 🕈
	tyco	Video	1	Network	l	System	Application	SD Card	I	Pan/Tilt	Camera1

- 2. Mark the "Audio" "ON" or "OFF".
- 3. Click on the **Submit** button to submit the new user's settings.
- 4. Click on the **Home** button to return to the home page.

NOTE: This setting is for turning the audio of the Camera on/off automatically. The Live audio service is only provided in the MPEG4 mode via the Web browser.

Audio:	Select "ON" or "OFF" to activate or deactivate the function.
--------	--



# • Change the System Setting — RS485 Setting.

Click on the **RS485 Setting** button on the left side of the "Date and Time" page to enter the "RS485 Setting" page.

VideoEd	GE*	American Dynamics A Tyco International Company Home   Help   Log Out
	RS485 Setting	
Date and Time Timestamp Users Digital I/O Audio RS485 Setting Update Events	Baud Rate: 9600 bps ♥ Type: 8-№1 ♥ Device ID: 1 ♥ Transmit Data Via RS485 ● Raw Format: ● Canonical Format:	
<b>τιμεσ</b> Video	Send Clear	SD Card   Pan/Tilt Camera 1

Baud rate:	Eight different speeds can be used: 2400 baud per second, 4800	
	baud, 9600 baud, 19200 baud, 28800 baud, 38400 baud, 57600	
	baud and 115200 baud.	
Туре:	Choose one of the types.	
Device ID:	You have the option of using an ID code (any number between 1	
	and <b>255</b> ).	
Raw format:	Set to transmit the ASCII codes.	
Canonical format:	Set to transmit the character string.	

#### • Change the System Setting — Update Firmware.

Please follow the steps below to update the firmware through the network as necessary.

- 1. Click on the Update Firmware button on the left side of the "Date and Time" page to enter the
  - "Update Firmware" page.

VIDEOEC	DGE"	American Dynamics A Tyce International Company Home   Help   Log Out
		none nop leaguer
	Update F	irmware
Date and Time	Current Version Description	
Timestamp 	Kernel Version:	1.00
Users Digital I/D	BIOS Version:	1.16
Audio	Software Version:	1.43
RS485 Setting	Compile Date & Time:	Mar 9 2009,14:24:53
Update 💦	HTML Version:	1.1.98
Events	ActiveX Version:	1,0,2,16
	Update the device with the Specify the firmware to upo	
	Bro	wse, and click Update
		camera during firmware update. The device the update has completed. (30-60 seconds.)
<b>tyco</b> Video	o   Network   System	Application   SD Card   Pan/Tilt
		Camera 1

- Click on the "Browse..." button to select the UPDATE.BIN file which was copied into your computer.
- 3. Click on the "Update" button.

NOTE: DO NOT power off the IP camera during firmware update.

NOTE: Don't interrupt the process while the unit is updating itself.

- NOTE: Please make sure that the UPDATE.BIN file is appropriate to the model of the unit. Updating with the wrong UPDATE.BIN file may cause physical damage to the device.
- **NOTE:** The Temporary Internet Files (or cache) folder contains Web page content that is stored on your hard disk for quick viewing. We suggest deleting the Temporary Internet Files immediately after updating the firmware. To delete the files in the Temporary Internet Files folder, follow these steps:
  - 1. Quit Internet Explorer and quit any instances of Windows Explorer.
  - 2. Click Start, click Control Panel, and then double-click Internet Options.
  - 3. On the General tab, click Delete Files under Temporary Internet Files.
  - 4. Select the **Delete all offline content** check box in the **Delete Files** dialog box, and then click **OK**.
  - 5. Click OK.

## • <u>View the Event Logs.</u>

Please follow the steps below to view events through the network as necessary.

1. Click on the **Events** button on the upper left above to enter the "Event Log" page.

	Event Log	
Date and Time	Item Date and Time Events	
Timestamp	1. 03/10/2009 16:03:51 admin LOGIN OK I	FROM 192.168.0.104
	2. 03/10/2009 15:53:57 admin LOGIN OK I	FROM 192.168.0.104
Users		FROM 192.168.0.178
Digital I/O	4. 03/10/2009 15:48:38 CHECK DISK FILE	
Audio		8.0.68 FROM 192.168.1.11
		S IS 192.168.0.68
RS485 Setting	7. 03/10/2009 15:48:34 SD CARD SIZE 393	
Update	8. 03/10/2009 15:48:30 SYSTEM ETHERNE	
Events		TO FLASH FILE SYSTEM
	10. 03/10/2009 15:48:30 IMAGE MODE IS J	
	11. 03/10/2009 15:48:30 SYSTEM BOOTING	
	12. 03/10/2009 15:48:22 CHECK DISK FILE	
	13. 03/10/2009 15:48:21 RESET KEY PRESS	
		8.0.68 FROM 192.168.1.11
		SIS 192.168.0.68
	16. 03/10/2009 15:48:18 SD CARD SIZE 393 17. 03/10/2009 15:48:14 SYSTEM ETHERNE	
		TO FLASH FILE SYSTEM
	19. 03/10/2009 15:48:14 EOAD 170 FILE(5)	
	20. 03/10/2009 15:48:14 IMAGE MODE IS 3	
	First Page Previous	20 Next 20

2. Choose one of the three buttons shown on the page to view an event when necessary. The three buttons are titled "First Page", "Previous 20", and "Next 20".

First Page: Displays the first page.	
Previous 20:	Displays the previous 20 pages.
Next 20:	Displays the next 20 pages.

# 5.1.5 Change the Application Setting

Please follow the steps below to change the application setting through the network as necessary.

<u>Change the Application Setting — FTP Application Setting (MJPEG mode only).</u>

Please follow the steps below to change the FTP setting via the network as necessary to upload

recording data live. (\*FTP function is for PAL version only.)

1. Click on the **Application** button on the home page to enter the "FTP Application Setting" page (default).

VIDEOED	36*		🛛 🖤 A Tyca Interna	an Dynamics lional Company lelp   Log Du
	FTP A <sub>I</sub>	oplication Setting		
Setting FIP SD Card SMTP Language Record	FTP Networking FTP Server: User Name: File Upload Path:	192.168.1.1 Port:21 guest /tmp		
Ecora Enable Record Schedule Alarm Enable Alarm Motion Detection	Storage Setting Pre-Alarm Memory Buffer: Alarm Memory Buffer: Upload Rate:	0 Video(s) 0 Video(s) 25F/15 ⊻		
<b>tyco</b> Video	Network   Syst	Submit	ard   Pan/Tilt	tu
naco	I NOCHOIK   073		and performent	Camera

- Enter the required number of images you wish to set in "Pre Alarm Memory Buffer" and "Alarm Memory Buffer respectively" in their corresponding blank spaces within the Storage Settings.
- 3. Enter the "Upload Rate" you have chosen.
- 4. Click "Submit" after each of the above entries for their settings.
- 5. Click on the "Home" button to return to the home page.

Pre – Alarm Memory Buffer:	Fixes the desired number of images to prelude an alarm.
Alarm Memory Buffer:	Determines the selected length of the image buffer after an alarm.
Upload Rates:	Sets the upload speed rate.

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A	Tyco International Company	

## • Change the Application Setting — SD Card Application Setting.

Please follow the steps below to change the SD CARD setting via the network as necessary, to upload recording data live.

1. Click on the SD card button on the top left to enter the "SD Card Application Setting" page.

VideoEo		Item 1 Log Out	VideoEco	3E'	American Dynamics
	SD Card Application Setting			SD Card Application Setting	
Setting 50 Cant Language Record Enable Record	SD Card Storage Format Selection <ul> <li>NINED Format</li> <li>Max MIPEG Humbers: 10 (Each 3FEG Per Second)</li> </ul>	<u>.</u>	Setting Dicant Language Record Enable Record	SD Card Storage Format Selection  Vit Format Audio Setting Recording Rate: 20075:9  AVI Duratori: 1 Vit Second(s)	
Scheckile Alarm Enable Alarm Motion Detection	AVI Format Audio Setting     Recording Rate: 1.277 15      AVI Duration: 1. Second(3)		Schedule Alarm Enable Alarm Mution Detection	Enable 50 Card Rewrite     Calculate	
	Ecuble SD Card Rewrite				
<b>TUDO</b> Video	Network   System   Application   50 Card   Pan/Ti	<b>U</b>	<b>tuco</b> Video	Network   System   Application   5	D Card   Pan/TAt
- 20		Camera1	in des 2010s		Camera 1

SD Card setting page of MJPEG mode

SD Card setting page of MPEG4 mode

You can choose which SD card storage format to use, MJPEG (MJPEG mode only) or AVI.

- 2. Click on your selected format and "Submit" to set it.
- 3. Enter "Max MJPEG Numbers" entry if it's MJPEG format.
- 4. Enter its recording rate and duration in seconds, and click "Submit" for their setting if AVI is your choice.

inploit of function keys.			
MJPEG Format:	One image per file.		
Max MJPEG Numbers:	Sets the number of file sequences you can save per second.		
AVI Format audio setting:	Unlike a single image file, this option offers a selected section of a		
	video record.		
Recording Rate:	Sets your chosen frame rate of frames per second.		
AVI Duration:	Predetermines the length of each video file in terms of seconds.		
Enable SD Card Rewrite:	Tick to activate the SD card rewrite function.		
SD Card Capacity:	The free capacity of the SD card.		
SD Card Usage:	The percentage of the recorded file on the SD card.		
SD Format	Click and press the Yes button to format the SD card.		

#### Change the Application Setting —SMTP Application Setting (MJPEG mode only).

Please follow the steps below to change the SMTP setting via the network as necessary. (\*SMTP

function is for PAL version only.)

1. Click on the **SMTP** button on the left side to enter the "SMTP Application Setting" page.

VIDEOE	DGE*	American Dynamics A Tyce International Company Home   Help   Log Out
	CMTD Application Catting	
Setting FTP SD Card SMTP	SMTP Application Setting SMTP Networking SMTP Server: 192.168.1.1 Email Address: guest@localhost	
Language Record Enable Record Schedule Alarm Enable Alarm Motion Detection	Storage Setting Attatched File Numbers: 1 Submit	
<i>tyco</i> Vide	o   Network   System   Application	SD Card   Pan/Tilt Camera 1

- 2. Enter the attached file number as and when necessary. The maximum number which can be used is 8.
- 3. Click on the **Submit** button to submit the new SMTP setting of the recording.
- 4. Click on the **Home** button to return to the home page.

|--|



#### • Change the Application Setting —Language Setting.

Please follow the steps below to change the Language setting via the network as necessary.

1. Click on the **Language** button on the left side to enter the "Language Setting" page.

Vide	io Ed	GE°		A Tyco Interi	can Dynamics national Company Help   Log Out
			Language Setting		
Setting SD Card Langua		Language:	English(English) Submit	~	
Record Enable R Schedul	Record				
Alarm Enable A	Alarm				
Motion I	Detection				
tyco	Video	Network	System   Application	SD Card   Pan/Tilt	🕶 U
					Camera1

You have an option as to which language to use. The default is "English"

2. Choose your selected language and click "Submit" to set it.

#### • Change the Application Setting — Record Application Enable Setting.

Please follow the steps below to change the setting via the network as necessary.

1. Click on the Enable Record button on the left side of the record to enter the "Record Application

VideoEdi	Setting" page. BE	American Dynamics Chap Instrumer Conserve Homme   Help   Log Out	ViseaEdi	36'	American Dynamics
	Record Application Enable Setting			Record Application Enable Settin	a
Setting FTP 50 Card 54TP Larguage Record Tradie terond Satedale Alarm Fundle Alarm Fundle Alarm	Enuble Record - Upbed Va HIP     Enuble Record - Save Info Site Gend     Enuble Record - Save Info Site Cend		Setting 50 Card Language Record 6 Martin 5 Schoolde Alarm Instile Alarm Hotion Detection	Enable Record - Save Into site card Record	
<b>type</b> Video	Network   System   Application   50 C	ard   PanyTite	<b>tyce</b> Video	Network   System   Application   50	Card   Part/Talt

#### Record setting page of MJPEG mode

#### Record setting page of MPEG4 mode

- Click "Enable Record UPLOAD Via FTP" to checkmark the box and activate the function (\*FTP function is for PAL version only).
- 3. Click "Enable Record Save Into SD card" to checkmark the box and activate the function.
- 4. Click on the **Submit** button to submit the new setting of the recording.
- 5. Click on the **Home** button to return to the home page.

Enable Record – Upload Via FTP:	Activates or deactivates the recording to the FTP server.
Enable Record – Save Into SD Card:	Activates or deactivates the recording to the SD card.



## • <u>Change the Application Setting — Record - Schedule.</u>

1. Click on the **Application** button on the home page to enter the "Record - Schedule" page.

VideoEc	DEOEDGE"			American Dynamics
				Home   Help   Log D
			Schedule	
Setting		Sunday	From 00 💌 : 00 😒	Fo 00 📉 : 00 📉
SD Card		Sunday		ro oo 🗟 : oo 🗟
Language		Sunday		To 00 😪 : 00 😪
Record		a current y	and in succession of the succe	To <u>00 × : 00 ×</u>
Enable Record		Sunday Sunday	and the second sec	To 00 🛩 : 00 🛩 To 00 🛩 : 00 🛩
Schedule		Sunday		
Alarm	-	1 2 3 4	5 6 7 8 9 10 11 17 131	
Enable Alarm	SUN			
Motion Detection	MON			
	TUE			
	WED			
	THU			
	FRI			
	SAT			
	OMT			
		S	ubmit 👘 Remove All Sc	hedules
				🗕 U
<b>'uco</b> Video	I No	twork	System   Application	SD Card   Pan/Tilt
Yoo yiueo	L Me		System 1 Application 1	Camera

- Check/uncheck any/all of the first seven boxes set vertically in the upper half of the "Schedule" page to enable/disable the programmed recording function, and vary the setting of the targeted item while it is enabled.
- 3. Click on the **Submit** button to submit the new schedule setting.
- 4. Click on the Remove All Schedules button to clear out all the data of the schedule setting.

Schedule: Check / uncheck the first seven boxes in a vertical row on enable/disable the programmed scheduled recording fu necessary. Vary any of the schedules of the recording necessary (please refer to the above description).	
Chart:	Schedule list.
Submit:	Click to submit the new setting to the IP camera.
Remove All Schedules:	Click to clear out all the data of the schedule setting.

#### <u>Change the Application Setting — Alarm Application Enable Setting.</u>

Please follow the steps below to change the setting via the network as necessary.

 Click on the Enable Alarm button on the left side of the record to enter the "Alarm Application Enable Setting" page.

VidedEo	GE'	American Dynamics A free Interview Content Horse   Help   Long Out	VisedEp	GE'	American Dynamic Total International Content Figura   Help   Lo	
Setting	Alarm Application Enable Setting	ot	Setting	Alarm Application E		
FTP SD Card SMTP Language	Enable Alarm - Upload Via FTP Enable Alarm - Save Into 10 Card Enable Alarm - Upload Via SMTP		SD Card Language Record Enable Record	Enable Alarm - Save Into 50 Alarm Duration: 30 second 9	Card	
Record Enable Record Schedale Alarm Motion Detection	Airm Durabon - Mananaka M		Schedule Alarm Ender Alarm Motion Detection			
<b>TUGO</b> Video	Network   System   Application   30 Car	d   ParvTitt Camera 1	typo Video	Network   System   A	polication   50 Card   Pan/Tel Came	ral
tuno Video	Network   System   Application   50 Car		typo Video	an a		Carner

MJPEG mode

MPEG4 mode

- Click "Enable Alarm Trigger an Alarm When Ethernet Is Lost" to checkmark the box and activate the function.
- Click "Enable Alarm Upload Via FTP" to checkmark the box and activate the function (\*FTP function is for PAL version only).
- 4. Click "Enable Alarm Save Into SD card" to checkmark the box and activate the function.
- Click "Enable Alarm Upload Via SMTP" to checkmark the box and activate the function (\*SMTP function is for PAL version only).
- 6. Enter the "Alarm Duration" you have chosen.
- 7. Click on the Submit button to submit the new setting of the recording.
- 8. Click on the **Home** button to return to the home page.

Enable ALARM – Trigger an Alarm	Activates or deactivates the alarm triggering while the	
When Ethernet Is Lost:	Ethernet lost.	
Enable Alarm – Upload Via FTP:	Activates or deactivates the alarm recording upload	
	the FTP.	
Enable Alarm – Save Into SD card:	Activates or deactivates the alarm recording to be	
	saved to the SD card.	
Enable Alarm – Upload Via SMTP:	Activates or deactivates the alarm recording upload to	
	the SMTP.	
Alarm Duration:	Predetermines the length of the alarm.	



## • Change the Application Setting — Alarm - Motion Detection.

Please follow the steps below to enable changes in the motion detection function of the alarm through the network as necessary.

Set the motion detection:

 Click on the Motion Detection button on the left side of the Alarm to enter the "Alarm – Motion Detection" page.

VIDEOEDO	зE°		Ame A Type II Hame	erican Dynamics ternational Company Help   Log Out
	Mo	tion Detection		
Setting SD Card Language Record Enable Record Schedule Alarm Enable Alarm Motion Detection				
	Click the rig Save Motion Detection:	ght mouse button to sh the setting after you fi	ow the popmenu. nish editing.	
	Sensitivity :	<ul> <li>Enable</li> <li>Disable</li> <li>Medium</li> <li>704</li> <li>(Customize)</li> </ul>	d Threshold)	
<b>tyco</b> Video	Network   Sys	Submit	SD Card   Pan/Til	t Camera 1

 Click and drag the mouse across a targeted zone to draw a red rectangle on the image (coordinates provided below).

NOTE: You can set more than one targeted zone depending on your requirement.

- 3. Enables / disables the motion detection function.
- 4. Set up the signal level.
- 5. Click on the **Submit** button to submit the new setting of the recording.
- 6. Click on the **Home** button to return to the home page.

The targeted zone:	Click and drag the mouse across the targeted zone to draw a red
	rectangle on the image.
Detection Range:	The red rectangle's coordinates.
Save:	Click to save the motion detection range.
Motion Detection:	This option enables / disables the motion detection function.
Sensitivity Level:	You can select any one of the given options for the setup signal level or
	just type in the value of Customized Threshold.

## 5.1.6 Change the SD card Setting

Please follow the steps below to change the SD card setting through the network as necessary.

<u>Change the SD card Setting — FILELIST of MEMORY CARD.</u>

Please follow the steps below to change the setting via the network as necessary.

1. Click on the "SD card" button at the bottom of the home page to enter the "Filelist of Memory

Card" screen. The page comes in two modes, the JPEG and the AVI (please refer to the

"SD card Application Setting Page").

Filel:	ist of	Memo	ry Card	Filel:	ist of	Memor	ry Card
Filebase	Date	Time Size	Start from: 200 - 12 - /2 - 15 - 18 - 17 - Ref	h Filensse	Date	Time Sice	Start from: 2001 -/ 12 -/ 29 - 15 -, 40 -, 07 - [Refen]
1656B2B.AVI		15:33:46 1293		DECERSES.TAG		15:15:24 269	Delate
3606R20.AVI		15:33:50 1248		26048672.TA0		15135134 249	Delete
2494R20.AVI		15:33:52 1258		2.0DERGII.TAG		15:15:46 269	Delete
2.656R22_AVI		15:33:54 1258		3606B6TZ.TAG		15135156 249	Delete
2404R24.AVI		15:33:54 1248		3606F782.TA0		15:36:08 269	Delete
1406836.AVI		15:33:58 1248		3606R7JI.TAG		15:36:10 269	Belete
1494P30.AVI		15:34:00 1243		2694RT02.TA0		15:36:30 269	Belete
3606R3A.AVI		15:34:02 1223		2.505P092.TAG		15:36:40 269	Detlate
1656RIC.AVI		15:34:04 1238		2604B002.TAD		15136148 212	Delete
3695838.AVI		15:34:06 1248		2406P0PT.TAG		15:36:58 269	Balate
36G6R3G.RVI		15:34:08 1248		36068962.TAG		15:37:10 249	Delete
1006R2I.AVI		15:34:10 1218		2505RPHI.IAP		15:37:20 269	Balata
240483K.AVI		15:34:12 1238		3606R952.TAG		15:37:32 249	Delete
LAY WEAKERS		15:34:14 1243		2606E9VZ.TA0		15:37:34 156	Delete
2656R30.AVI	2008/12/29	15:34:16 3243	Inlete	260SPART. TAG	2008/12/29	15:37:46 269	Delete
Delete All Fi	laz			Delete All Fr	142		
15 files and	3920080 HByte	s free		15 files and	3909956 KByte	is free	
HTTP Server a	e caseca			HTTP Server 4	Capera .		

- 2. Click on the desired file to display the images.
- 3. Each file can be deleted by clicking the "Delete" hyperlink.

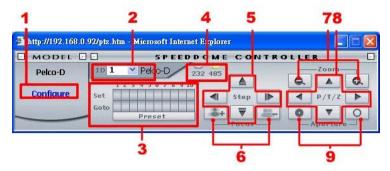
NOTE: Right click the hyperlink of the file in the "Filelist of Memory Card" page and then click "Save" to save the file.

CAUTION: If you wish to save the SD CARD files from a camera to your computer, enter the JPEG column in the "Filelist of Memory Card" page and enter the relevant files in the column. When you click right, the images concerned will appear. Move your cursor within the image area and right click the mouse. A table of item entries displays. Click "Save" and select the file path in which to save your files.



## 5.1.7 Change the Pan/Tilt setting

1. Click on the Pan/Tilt button on the home page to open the Speed Dome Controller.



- Click "Configure" to enter to the RS485 setting page (please refer to Change the System Setting — RS485 Setting).
- Select a Speed Dome device ID from the drop-down list on the Speed Dome Controller. The Controller will display the corresponding ID.

Each of the ten buttons under 'Set' is connected with a specific position and angle of either panning or tilting of the camera. Click each button to activate its particular position and angle. Press the button under 'Preset' to turn the camera angle by angle in the set positions. Each of the ten buttons designated 'Go to' can be clicked to view the particular corresponding angle of the position to which it is set.

- Select the connecting port. The RS-485 communication ports function as connectors when two or more units are serially connected to an external control device.
- Upon the buttons being clicked, a camera will move one short step only in any of the four designated directions.
- Click on the buttons to control the Focus setting on the Speed Dome Controller. Click "+" button to focus far and click the "-" button to focus near.
- Click on the buttons to control the Zoom setting on the Speed Dome Controller. Click "+" button to zoom in and click the "-" button to zoom out.
- Upon the buttons being clicked, a camera will turn all the way, without stopping, in one of the four designated directions.
- 9. Click on the buttons to control the Aperture setting on the Speed Dome Controller.

#### 5.1.8 PPPoE & DDNS

#### Using the PPPoE

- 1. Install the XDSL software (obtained from your ISP dealer) in your PC.
- Search for your IP camera's IP address: you can connect the IP camera and the Video monitor. The monitor screen will show the IP address on its right side.
- 3. Change the switch on the IP camera's side panel to position # 4.
- 4. Installing an IP address in your PC or notebook.

Desktop  $\rightarrow$  Move the cursor to the Network neighborhood and right click the mouse  $\rightarrow$ Choose the properties  $\rightarrow$  Choose your local connection  $\rightarrow$  Choose the properties and select the configuration  $\rightarrow$  Select the TCP / IP  $\rightarrow$  Choose the properties  $\rightarrow$  Enter the IP address in a four-part format, for example "192. 168. 1.101" (the first three parts must be identical to the above numbers, only the last part can be changed to your own number, which must never exceed 255)  $\rightarrow$  Click on the mask and the mask input, namely "255. 255. 255. 0" (a fixed formula)  $\rightarrow$  Click "OK"  $\rightarrow$  Click "OK".

Desktop → Choose IE browser → Enter the IP camera IP address in the URL (check step # 2 above) → Enter → IP camera images will appear.

#### **PPPoE Settings**

- Enter the IP camera home page → Choose the network → Enter "User Name: admin" and "Password: 9999" → Click "OK'.
- 2. Choose PPPoE  $\rightarrow$  PPPoE mode: Select "ON"  $\rightarrow$  Enter "Account"  $\rightarrow$  Enter "Password"  $\rightarrow$  Submit  $\rightarrow$  Unplug the power connection.
- Plug in the IP camera and it will receive an IP address from the ISP dealer (this IP address is dynamic --- every time you unplug and plug in again you'll get a new IP address).



#### Test: Go to the Internet.

- 1. Set your PC to enter the Internet.
- Desktop → IE browser → Enter the IP camera IP address (the same address as in the PPPoE settings and step 3 above) → You can see the IP camera images.

#### DDNS settings

- Check your IP camera's IP address (monitor ) → open your IE browser → Use the address to connect to the IP camera or view the images → Choose the network → Enter "User name : admin" and "Password : 9999" → Click "OK".
- Choose the "DDNS" → Click "Enable DDNS" → Enter the "DDNS host name", for example "abc123. homeip.net" → Enter "DDNS Account", for example "abc123" → Enter the "DNS Password", for example "7777" → Submit → The settings are now complete → Close the IE browser.
- Open the IE browser again → Enter the Website address you just applied for, such as "abc123.homeip.net" → You can look at your IP camera images right away. The procedure is complete.
- NOTE: These settings are only for your ADSL Dynamic IP configuration. If your configuration is fixed (true IP), you don't need to proceed with the PPPoE and DDNS settings. The DDNS is just for your convenience.

#### 5.1.9 The Bandwidth Calculator of the IP camera

You can use the calculator to obtain the rough bandwidth throughput for reference.

Enter "http://\*\*\*.\*\*\*.\*\*\*/calculator.html" into the URL block and press the "Enter" button to enter the calculating page. (The \*\*\*.\*\*\*.\*\*\* is the URL address of the IP camera accordingly.)

# Network Camera Bandwidth Calculator

NTSC 💌	Frame rate	Resolution	Quality	Motion scene	Bandwidth
MJPEG		Full D1 💌	Highest ⊻	100% ⊻	15120 Kbps
NPEG-4	30 💙 fps	Full D1 💌	Highest ⊻	100% 🚩	3072 Kbps
H.264	30 🖌 fps	Full D1 💌	Highest ⊻	100% 🚩	2048 Kbps
					Versio

\* The result shows the maximum bandwidth that the device can transmit and it is for reference only. This value is subject to be changed by network or PC performance.

Please select the video format and set the desired resolution, quality and the percentage of the motion scene and the result will show on the bandwidth column immediately.

NOTE: The selection of motion scene provides the rough percentage of motion within the

scene, please make the setting in regards to the situation which you want to know.



# 6. ADVANCED OPERATION

Question 1:
How can I view the live images of the IP camera via Microsoft Internet Explorer on the
Desktop PCs, or the laptop computers, in a situation where there are no monitors or
television?

◇To get the IP address of the IP camera without a monitor, use one of the following two methods to get the IP address: UPnP and IP function.

UPnP: Please refer to APPENDIX 1.

IP function: Please refer to APPENDIX 2.

# Question 2:

How do I set up the motion detection area and its sensitivity?

## ♦Set up the motion detection

- 1. Click the Application button in the home page.
- Click the Motion detection button on the left side of the page to enter the "Alarm Motion Detection" page.
- 3. Click and drag the cursor across a targeted zone to draw a red rectangle on the image. You can also draw the other targeted zones as you wish.
- 4. Please Enable the motion detection function.
- 5. Set up the sensitivity level from: Lowest, Low, Medium and High to Highest.
- 6. Click the Submit button to submit the setting.

# Question 3:

How do I record on the SD card for 30 seconds when the motion has been activated and use Microsoft Internet Explorer to view the recorded files?

## **ORECORD** Recording the images into an SD card while the motion detection function is working

- 1. Click the Application button in the home page.
- 2. Click the **Enable** button below the ALARM item on the left side of the page to enter the "Alarm Application Enable Setting" page.

- 3. Check on "Enable Alarm-Save into SD Card" to activate it.
- 4. Click the **Submit** button to submit the setting.

#### NOTE: Please remember to insert the SD card into the built-in SD slot of the unit first.

#### ♦ Set the recording time (the AVI duration) of the SD card

- 1. Click the Application button in the home page into the "SD Card Application Setting" page.
- 2. Choose the AVI Duration from the drop-down list.

If you want to record the file into the SD card for 30 seconds, please choose 30 seconds.

3. Click the **Submit** button to submit the setting.

#### **♦**Use IE to view the recorded files

- Click the SD Card button in the home page to enter the page containing the "Filelist of Memory Card".
- 2. Click the filename which you want to view.
- 3. It will ask you to enter the username and password.
- If you didn't set the other player before, the AVI file will be played by the Windows Media Player.

## Question 4:

How do I use the DynDNS to connect the IP camera by using its Sub Hostname via the intranet?

#### ♦Set the DDNS function

- 1. Click the **Network** button in the home page.
- 2. Click the **DDNS** button on the left side of the page to enter the "DDNS Setting" page.
- 3. Check on the "Enable DDNS Function" to activate it.
- 4. Choose one of the DDNS Types from the drop-down list.

If you didn't register for a DDNS before, please choose one of the DDNS Type then press "Apply" button to its registering homepage and register as a member.

- Enter the DDNS Host Name, DDNS Account and DDNS Password which you created in the <u>www.dyndns.com</u> website.
- 6. Click on the **Submit** button to submit the setting.

NOTE: Please refer to the APPENDIX 4 for more details.



## ♦ Set the PPPoE function

- 1. Click the **Network** button in the home page.
- 2. Click the **PPPoE** button on the left side of the page to enter the "PPPoE Setting" page.
- 3. Choose "ON" from the "PPPoE Mode" list to activate it.
- 4. Enter the Account and the Password which are provided from your ISP.
- 5. Click the **Submit** button to submit the setting.

## NOTE: Please refer to section 5.1.8 for more details.

### ♦ Use the Sub Hostname to view the IP camera

- 1. Click the URL block at the top of the PC screen.
- Enter the DDNS Host Name of the IP camera into the URL block and press the "Enter" button to enter the login page.
- 3. Enter the user name and fill in the password.
- 4. Click the "OK" button and enter the home page of the IP camera.

## **Question 5:**

How to add or modify the users and their authorities of using the IP camera?

## ♦ Entering the setting page

- 1. Click the **System** button in the home page.
- 2. Click the Users button on the left side of the page to enter the "System Users" page.

### Add a new user

1. Please enter the user name, the password, the confirmed password and choose the authority.

There are three different levels of authorities, namely Admin, Operator and Viewer.

Admin: The user who accesses with the admin name and password has the full rights to change the settings of the IP camera.

**Operator:** The suggested choice for normal use.

Viewer: The user who accesses with just the viewer name and password has only limited rights to view.

2. Click the **Submit** button to submit the new user's setting.

## Modify the user

- 1. Click the user name you want to modify on the User List.
- 2. Enter the password, the confirmed password and choose the authority.
- 3. Click the Submit button to submit the new setting.

### ♦ Delete a user

- 1. Click the user name you want to modify on the User List.
- 2. Click the Delete button.

# 7. SPECIFICATIONS

	ADCIPEBN	VideoEdge IP Box Camera, 24VA	C/12VDC, NTSC, w/PS	
Model	ADCIPEBPE	VideoEdge IP Box Camera, 24VAC/12VDC, PAL, EU Plug, w/PS		
	ADCIPEBPU	VideoEdge IP Box Camera, 24VAC/12VDC, PAL, UK Plug, w/PS		
Video	Video sensor	1/3" Sony Super HAD CCD (with HQ1 DSP)		
	System	NTSC/ PAL		
	Horizontal resolution	520 TV lines		
	Lens	C/CS mount		
	Auto Iris type	DC-iris		
	Day and Night	Mechanical IR Cut Filter: Auto; Color / Monochrome		
	AWB	2500°K ~ 9500°K		
	AES	1/60 (PAL 1/50)~ 1/100000 sec		
	High speed shutter	1/1000 sec		
Min.	Color 0.5 lux @ F1.2		@ F1.2	
illumination	B/W	0.03 lux @ F1.2		
	Compression	MJPEG	MPEG4	
	Resolution	352 x 240 720 x 480 (Frame) 720 x 240 720 x 480 (Field)	Full D1 VGA Half VGA 2CIF CIF QVGA	
Image	Frame-rate		30 (25) / 24/ 15/ 10/ 5 FPS	
	Picture size (quality)	4~64KB	64Kbps ~ 8Mbps (Bit rate)	
	Configurations	Max AGC, Contrast, Brightness, WB, BLC, Sharpness, Saturation, Flickerless, Mask area		
	Motion detection	Motion Detection (96 zones, 5 levels)		
Audio	Built-in microphone	8 kHz sample rate		
Network	Interface	Ethernet (RJ-45 wired, 10/100 base-tx), MDIX support		
	Protocols	TCP/IP, DHCP, HTTP, ICMP, UPnP, ARP, DNS, DDNS, PPPoE RTP, RTSP, FTP**, SMTP**		
	Throughput	2.0M bytes/sec		
Software	Web browser	Microsoft IE 6.0 or above		
	Development tools	ActiveX / HTTP-API / SDK		
	Security	Multiple level / Multiple users / IP address filtering		



Connectors	Video output	1.0 Vpp, 75 ohm, composite, negative, BNC x 1	
	Alarm I/O	1 input / 1 output	
	Serial port	RS-485	
	SD card	Alarm and Schedule recording / update	
	USB	Configuration / Update	
	Reset	Factory Default	
Others	LED indicator	Power / Network indicator	
	Power requirement	DC12V / AC24V** (6W)	
	Operating Temperature	0°C ~ 50°C	
	Dimensions	60(W) x 45(H) x 94(D) mm	
	Approvals	FCC, CE, RoHS	
		Power adapter x 1	
	Accessories	USB wire x 1	
		User manual x 1	

- \* Specifications are subject to change without notice.
- \* FTP and SMTP functions are for PAL version only.
- \*\* This device's requires AC 24 voltage, which is within the range of the SELV (Separated or safety extra-low voltage).

# 8. Functions of client PC

System requirement	Windows 2000, XP or above
Browser	IE 6.x
Live Monitor	Max. 16 Split , Real Time REC/ Capture/ Audio/ Live Event/ Full Screen
Playback Viewer	Playback, Time / live event Search / Export (JPEG / AVI)
Settings	Device/ System/ Camera management/ web page
Multi-camera link	Max. 16 camera

# APPENDIX 1. – IP camera UPnP How To

The most troublesome issue when you setup a LANCam<sup>®</sup> is that you have no idea what the IP address of this device is. Now LANCam<sup>®</sup> supports the UPnP (Universal Plug and Play) protocol which makes it easier for you to examine it; however, Microsoft Windows XP<sup>®</sup> doesn't start this service by default. Therefore, the following procedures will help you to turn it on and discover your LANCam<sup>®</sup> step by step as shown in Figure1 below.

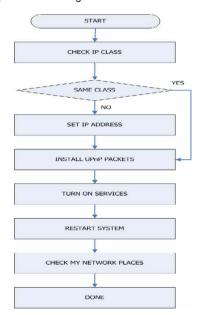


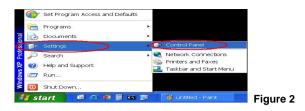
Figure 1 UPnP Setup Flow Chart

### 1. Check the IP class of your PC

In most cases Microsoft Windows XP<sup>®</sup> will assign an IP address, 169.254.\*.\*, automatically with a subnet mask, 255.255.0.0, if the DHCP server is absent, while the default IP address of a LANCam<sup>®</sup> is 192.168.1.168 with a subnet mask of 255.255.255.0. There won't be any communication due to different IP class domains, and you have to modify the relative settings or the UPnP protocol won't work; however, checking your own IP address is necessary. Here are the procedures to check and modify them.

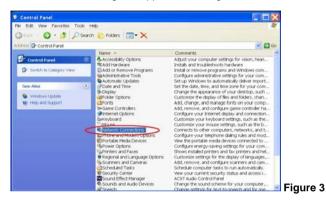
Step 1: From the Start menu, point to Settings, and then click Control Panel. See Figure 2.





Step 2: When Control Panel appears, double-click the Network Connections icon. The

Network Connections dialog box appears. See Figure 3.



Step 3: Click the Protocols tab in the Network Connections dialog box. See Figure 4.

letwork Connections				. 🗆 🔀
Edit View Favorites Tools A	dvanced Help			1
Back • 🔘 👌 🔎 Seard	h 💽 Folders 🛄 🕈 🕻	×		
ess 🔍 Network Connections				- 20
ertwork Tasks	Name		Туре	Status
ertwork Tasks 🗷	Broadband			
Create a new connection	Hinet		Broadband	Disconnec
Change Windows Finewall settings	LAN or High-Speed	Internat		
Cosable this network				12
device Repair this convection	Local Area Connecto	Disable		Connected
Rename this connection		Status		
Verw status of this		Repar		
connection		Bridge Connections		
Change settings of this connection			-	
		Create Shortout Delete		
Other Places (*)		Rename		
A CONTRACTOR OF	1	Properties		
Control Panel	C	Hoperoes		
My Network Places		A PROPERTY OF A PROPERTY OF		
My Documents Wy Computer				
3 wheeubone				
Details •				
Detais 🔾 3	v e			3

Step 4: When the Local Area Connection Properties dialog box shows up, choose Internet

Protocol (TCP/IP) and click Properties. See Figure 5.

eneral	Authentication	Advanced				
Conne	ect using:					
<b>1129</b>	Marvell Yukon Gi	gabit Etherne	t 10/100/1	Configur	e	
This c	onnection uses the	following iter	ms:			
	Client for Micros					
	Eile and Printer 8		crosoft Netwo	rks		
M .9.	Internet Protocol	(TCP/IP)	>			
	Install	Unins	tall 🚺	Propertie		
Desc	cription			11		
are	nsmission Control a network protoco erse interconnecte	that provide			ide	
- Sh	ow icon in notificati	on area wher	connected			
	tify me when this o			connectivity		

Step 5: In the Internet Protocol(TCP/IP) Properties dialog box, choose Use the following IP

Address to indicate that you do not wish to use DHCP, and assign IP Address

192.168.1.200 with Subnet mask 255.255.255.0.

Click **OK** when you finish it. See Figure 6.

pability. Otherwise, you need t propriate IP settings.	I automatically if your network supports th o ask your network administrator for the	this
Obtain an IP address auton Use the following IP address		
IP address:	192 168 1 200	>
Subnet mask:	255 . 255 . 255 . 0	>
Default gateway:		
Obtain DNS server eddres	autometically	
Use the following DNS served	eraddresses:	
Preferred DNS server.		
Alternate DNS server.		
		ced

Step 6: Choose Close to finish the modification. See Figure 7.

	wanced		
Connect using:		. W.	10
Marvell Yukon Giga	bit Ethernet 10/100/1	Configure	
This connection uses the fo	flowing items:		
🗷 🔜 Client for Microsoft	Networks		
File and Printer Shi		orks	
Internet Protocol (T Internet Protocol)	CHINA		
Install	Uninstall	Properties	
Description			
Transmission Control Pr			
area network protocol th diverse interconnected		tion across	
			-
	area when connected		
Show icon in notification Notity me when this con			



### 2. Install UPnP Packets

As described before, Microsoft Windows XP<sup>d</sup> doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them.

Step1: From the Start menu, point to Set Program Access and Default, and then click it. See

Figure 8



Step 2: When the Add or Remove Programs dialog box appears, click the Add/Remove



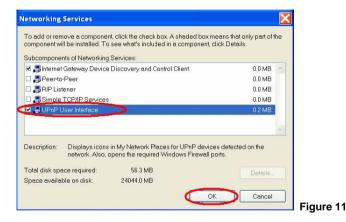
Windows Components button. See Figure 9.

Step 3: Check the Network Services in the Windows Component Wizard dialog box, and

then click Details.... See Figure10.

dows Components You can add or remove compon	ents of Windows XP.		
	nt click the checkbox. A shaded I To see what's included in a co		of
Components:			
Message Queuing		0.0 MB	^
MSN Explorer		20.7 MB	
Networking Services		0.3 MB	
Cher Network File and I	Print Services	0.0 MB	100
Contouk Express		0.0 MB	100
Total disk space required.	rly of specialized, network-relate 56.3 MB	d services and protocols.	-
Space available on disk:	24044.8 MB		_

Step 4: Check UPnP User Interface, and choose OK. See Figure 11.



Step 5: When the original Network Component Wizard dialog box returns, click Next. See

#### Figure12.

lows Components ou can add or remove compone	ants of Windows XP.			B
To add or remove a componer the component will be installed. Components:			of	
🗆 🚅 Message Queuing		0.0 MB	^	
MSN Explorer		20.7 MB		
Retworking Services		0.3 MB	13	
Cher Network File and P	rint Services	0.0 MB		
C Cutlook Express		0.0 MB	4	
Description: Contains a variet	y of specialized, network-relate	d services and protocols.		
Total disk space required:	56.3 MB	-		



Step 6: After about one minute the UPnP installation will be done, and choose Finish to close it.

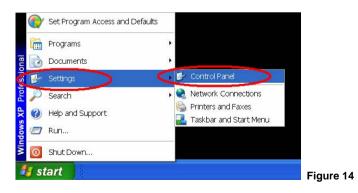
See Figure13.

Windows Components V	Vizard	
Ĩ	Completing the Windows Components Wizard	
	You have successfully completed the Windows Components Wizard.	
	Tu cluse this wizerd, click Finish.	
	< Boo Finish	Figure 13

### 3. Turn on Services

After installation, you must turn on the relative services to start the UPnP protocol. The following procedures demonstrate this.

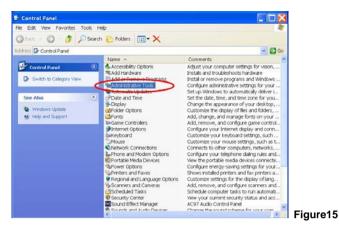
Step 1: From the Start menu, point to Settings, and then click Control Panel. See Figure 14.



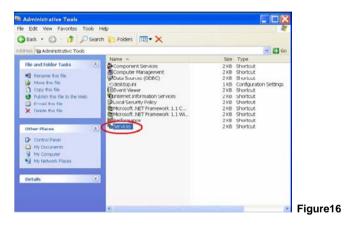
Step 2: When Control Panel appears, double-click the Administrative Tools icon. The

Administrative Tools dialog box appears. See Figure 15.

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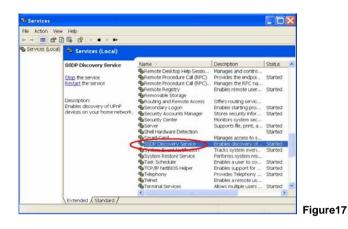


Step 3: Click on the Services icon in the Administrative Tools dialog box. See Figure 16.



Step 4: When the Services dialog box shows up, double click the SSDP Discovery Service icon. See Figure 17.

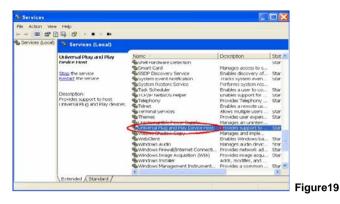




Step 5: Choose Automatic in the Startup type, and click OK to start it. See Figure 18.

Log On	Recovery Dependencies
Service name:	SSEIPSEV
Display name.	SSEIF' Eliscovery Service
Description.	Enables discovery of UPnP' devices on your home
Path to executabl	lu. ystem32\svcnust.exe -k.LucalService
0.1000003135	/stemp2/svc lost exe -k cocdiService
Startup type:	Automate
Startup type:	Automatic
Startup type:	Automatic
	Automatic Monual Dissibled
Service status:	Manual Manual Line solved States Stat

Step 6: When the Services dialog box appears again, double click the Universal Plug and Play Device Host icon. See Figure 19.



Step 7: Choose Automatic in the Startup type, press the Start button, and click OK to start it.

See Figure20.

eneral Log On	Recovery Dependencies
Service name:	upphost
Display name:	Universal Plug and Play Device Host
Description:	Provides support to nost Universal Pluq and Play A
3 NE 1995 - 18 U.L.	
Path to executabl	e:
	e: /stem32\svchost.exe -k _ocalService
C:\WINDOWS\S)	Automatic
C:\WINDOWS\S)	vstem32(svchost.exe -k_acealService
C:\WINDOWS\Sy Startup type.	Automatic Automatic Memoria Disabled
C:\WINDOWS\S) Startup type. Service status: Start	Automatic

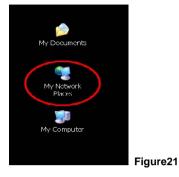
Step 8: Restart your system.



## 4. Scan LANCams<sup>®</sup> through My Network Place

After your installation and starting services, the UPnP protocol will take effect. You can scan all

LANCams in My Network Place like Figure21 and Figure22 below.





Just double click the **UPnP MPEG4 IP camera** the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer.

## **APPENDIX 2. – The ARP function**

#### Setting the IP Address

The Ethernet interface on the LANCam has a default IP address (192.168.1.168) that most likely needs to be changed to make it work on your local network. You need to acquire a unique IP address (ask your network administrator). For the initial setting of the IP address the LANCam needs to be connected to the same network segment as your client, and the IP address can then be configured by using a combination of ARP and ping command.

Use any of the following ways to set the IP address within thirty seconds after booting the LANCam (re-cycle the power). Setting IP using the method below can only be done on the Ethernet interface.

### ARP and ping from Windows or MS-DOS:

The user can open the PC's MS-DOS windows from the WINDOWS 98 operating system, or open the PC's Command Prompt windows from either the WINDOWS 2000 or the WINDOWS XP operating system.

- 1. Start a DOS prompt window
- 2. Type the following in 30 seconds after the booting:

arp -s <IP address> <Ethernet address> [or arp -s <IP address> < MAC address>] ping <IP address>

Example: arp -s 192.168.1.100 00-0C-0C-00-00-01 ping 192.168.1.100 The IP address now is: 192.168.1.100.



## ARP and ping from UNIX or GNU/Linux:

- 1. Start a shell
- Type the following as superuser (root): arp -s <IP address> <Ethernet address>
   [or arp -s <IP address> < MAC address>]

ping <IP address>

Example:

arp -s 192.168.1.100 00-0C-0C-00-00-01

ping 192.168.1.100

The device responds to the ping in the examples above if the new address was configured. Note, this method will set the IP address permanently.

NOTE: The default account and password after the reset are admin and 9999.

## **APPENDIX 3. – Register as a DDNS member**

The DDNS (dynamic domain name system) is a function which is provided by an American company. Please refer to <u>www.dyndns.com</u>. This chapter provides the user with the basic instructions on how to register a free DDNS service.

#### **Registering for a DDNS**

Enter the URL <u>www.dyndns.com</u>. In the upper right-hand corner of the main page, where there is an item, "<u>Create Account</u>", as shown in Figure 1.

DynDNS - Dynamic DNS, E- File Edt View Favorites Too	Mail Delivery and Other Services - Nic	rosoft Internet Explorer			
Address () http://www.dyndrs.com					- 2 - 10 - 10 - 10 -
DynDNS				Dyn	ONS.com + Dynect + Dyn1LD + Corporate
	🔿 DynDl	NS	Utan		ogn
	Abx	out Services	Account Support	News	
		T FOR THE F	technology DNS Ser DNS for stat Mailt-top	te and dynamic IP addresses Services tie mail delivery Search	
	Resources	Services	Support	About Us	
	What is DNS? DNS Tools	Custom DNS Dynamic DNS	Update Clents 24/7 Promer Support	The Company DyrDNS Careers	
	Durnets Services	E-Mail Relay	Developer's Info	Contact Us	
		© 1910-2001 Currants Federal	h.Sectors.Inc Lead tobox - Cardet		
<b>4</b> 3					S liternet

Figure 1

### Create an account

After clicking "<u>Create Account</u>", you will enter the Create Account page. Please complete the form at the bottom of the page to create your account. You will receive an e-mail containing instructions to activate your account. If you do not follow the directions within 48 hours, you will need to recreate your account.

### Set up the DDNS

After creating the account successfully, please enter your user name and password in the upper right-hand corner of the main page to login, as shown in Figure 2.

After you login successfully, a text will appear saying "My Services", as shown in Figure 3.





Figure 2



Figure 3

Click "My Services" to enter the service page. Please click the "Add Host Service" item which is below the "My Hosts" item, as shown in Figure 4.

Click "Add Host Service", and its service items will appear. The <u>Add Dynamic DNS Host</u> item helps to add a new DDNS. Each member may have only one free account, and one free account can have only five DDNS.

Click Add Dynamic DNS Host to enter the DDNS setting page as shown in Figure 5.

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Figure 4

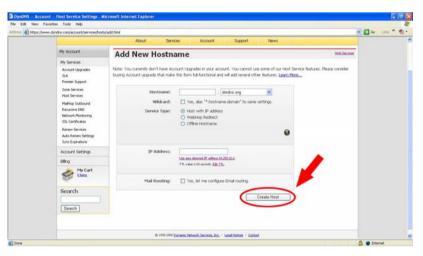


Figure 5

All we have to set in this page is the "Hostname" item. The user can choose a Sub Hostname as s/he likes from the right-hand side of the Hostname's drop-down list.

#### NOTE: You don't have to set the "IP Address" in the same format as the camera's IP

#### Address. It will renew the IP Address automatically.

After finishing the setting, please press the "Create Host" button as shown in Figure 5.





Figure 6

# APPENDIX 4. – MPEG4 Bit Rate Lookup Table of IP camera

	Highest	High	Medium	Low	Lowest
FULL D1	3	2.5	2	1.5	1
VGA	2.63	2.25	1.75	1.31	0.88
2CIF	1.5	1.25	1	0.75	0.5
Half VGA	1.31	1.13	0.88	0.67	0.44
CIF	0.75	0.63	0.5	0.38	0.25
QVGA	0.66	0.56	0.44	0.38	0.22
ZOOM * 2	3	2.5	2	1.5	1
ZOOM * 3	3	2.5	2	1.5	1
ZOOM * 4	3	2.5	2	1.5	1

1. When frame rate is higher than 15 frames/second (15 is not including):

2. When frame rate is lower or equal to 15 frames/second:

	Highest	High	Medium	Low	Lowest
FULL D1	2.25	1.94	1.5	1.13	0.75
VGA	1.94	1.69	1.31	0.98	0.66
2CIF	1.13	0.94	0.75	0.56	0.38
Half VGA	0.98	0.84	0.66	0.49	0.33
CIF	0.56	0.47	0.44	0.28	0.19
QVGA	0.5	0.44	0.34	0.25	0.19
ZOOM * 2	2.25	1.88	1.5	1.125	0.75
ZOOM * 3	2.25	1.88	1.5	1.125	0.75
ZOOM * 4	2.25	1.88	1.5	1.125	0.75

\*The unit is in Mbps/second.



## APPENDIX 5. -FAQ

1. How do I disable the DHCP function and use a static IP instead?

A : Turn up the "DIP SWITCH" from "3" to "4" and change the relative network settings, the IP Address, NetMask and Gateway on the image web page.

2. Can the SD card be removed during recording?

A : No, it cannot be removed until the recording comes to a single point. The POWER LED flashing light signals the SD card is operating. The green light indicates the unit is activating. The red light warns the SD card cannot be removed. If the SD card is withdrawn in this mode, the card will break.

3. I've set the function of "Motion Detection" but it doesn't seem to work.

A : Check if "Motion range" and "Sensitivity" have been set before activating the function.

4. My AVI files recorded in the SD card cannot be displayed. What can I do to display the files?
A : Please visit "http://www.morgan-multimedia.com/" to download "Morgan M-JPEG codec" and install it, and then check the selection of the "IJP Core".

5. How do I turn on/off the OSD (on screen display) on/off on the IP camera?

A : Visit the homepage - tailpage.htm of the device, and select "ON" or "OFF" in the OSD column. Example: suppose the IP address of the device is 192.168.1.168

Enter <u>http://192.168.1.168/tailpage.htm</u> ( a registration is needed) and select "ON" or "OFF" in the OSD column.

WARNING: Please write down the IP address of the device before you turn off the OSD.